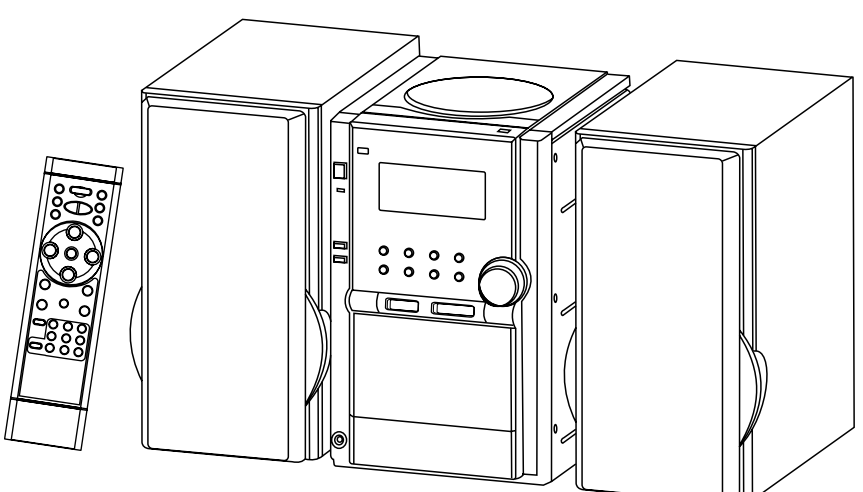
SERVICE MANUAL

MICRO COMPONENT SYSTEM

(RADIO CASSETTE &MP3&CD)

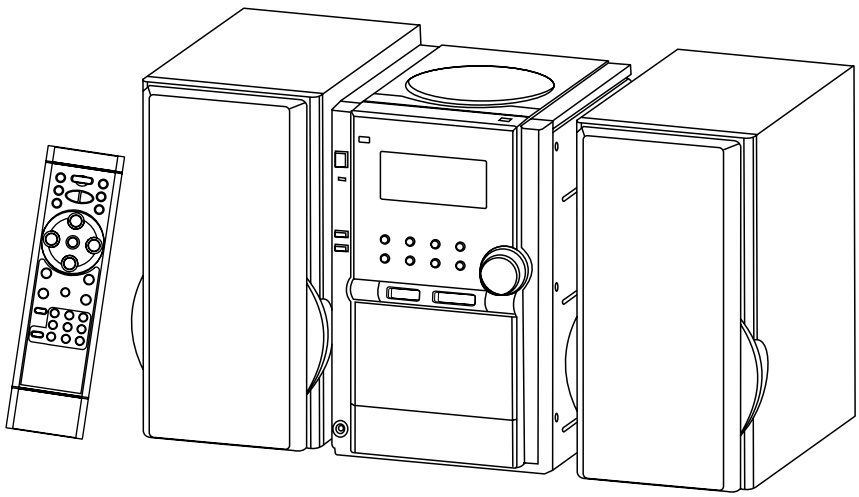


Service Manual

MODEL:NE-563

CAUTION: Before servicing the chassis, read the " important service safety information" section on page 2 of this manual.

PORTABLE RADIO CASSETTE WITH CD&MP3 PLAYER



SPECIFICATIONS

AM/FM TUNER SECTION

ANTENNA SYSTEM	AM: FERRITE BAR FM: LEAD WIRE AND
TUNING RANGE	AM: 522 - 1620 kHz FM: 87.5 - 108 MHz

AUDIO SECTION

SPEAKER IMPEDANCE	: 4 OHM
GENERAL	: 5W x 2
POWER INPUT	: ~AC 230V-50Hz

AC POWER CONSUMPTION

MAIN DIM	: 160(L)x230(W)x 260(H)mm
SPEAKER DIM	: 133(L) x195(W) x257.5(H)mm
WEIGHT	: 7.4Kg

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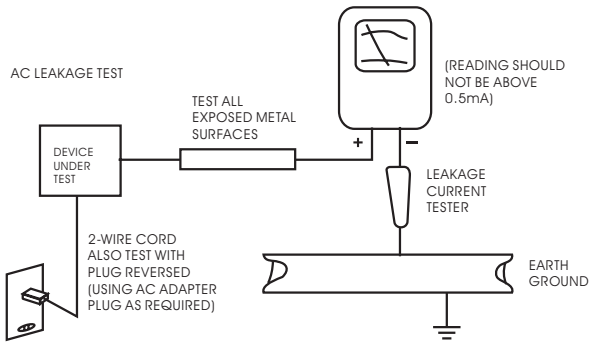
SERVICE PUBLICATION

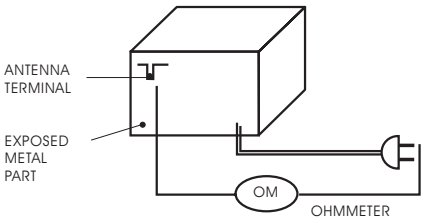
NOTE: All the specifications and features are subject to change without notice.

IMPORTANT SERVICE SAFETY INFORMATION

1. SAFETY PRECAUTIONS
   Before returning a unit to the customer, always make a safety check of the entire unit, including, but not limited to the following items:
   a. Be sure that no built-in protective devices are defective and/or have been defeated during servicing.
   (1)protective shields are provided to protect both the technician and the customer. Correctly replace all missing protective shields including any removed for servicing convenience.
   (2)when reinstalling the chassis and/or other assemblies in the cabinet, be sure to put back in place all protective devices, including , but not limited to , nonmetallic control knobs, insulating fishpapers. adjustment and compartment covers/shields and isolating resistor/ capacitor networks. Do not operate this or permit it to be operated Without all protective devices correctly installed and functioning .
   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, excessively wide cabinet ventilation slots, and an improperly fitted and/or incorrectly secured cabinet back cover.
   c. Leakage current hot check - with the unit completely reassembled ,plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National standards Institute (ANSI) C101.1"Leakage Current for Appliances "and Underwriters Laboratories(UL) 1410 (50.7). WITH THE UNIT AC switch first in the ON position And then in the OFF position, measure from a known earth ground (metal water pipe, conduit, etc.) To all exposed metal parts of the Unit (antennas, handle bracket, metal cabinet, screw heads , metallic overlays, control shaft, etc.) Especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamp, reverse the unit power cord plug in the outlet and repeat test .
   ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HERENING INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED RETURNING THE UNIT TO THE CUSTOMER.


AC LEAKAGE TEST
TEST ALL EXPOSED METAL SURFACES
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
+
−
LEAKAGE CURRENT TESTER
2-WIRE CORD ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

   d. Insulation resistance test cold check:
   unplug the power supply cord and connect a jumper wire between the two prongs of the plug .
   Turn on the power switch of the unit.
   Measure the resistance with an ohmmeter between jumpered AC PLUG AND EACH Exposed metallic cabinet part on the unit, such as screw heads, antenna, control shafts, handle brackets, etc. When the exposed metallic part has a return path to the chassis , the reading should be between 1 and 5.2 megohms. When there is no return path to the chassis, the reading must be " infinite" . If it is not within the limits specified, there is the possibility of a shock hazard, and the unit must be repaired and rechecked before it is returned to the customer.

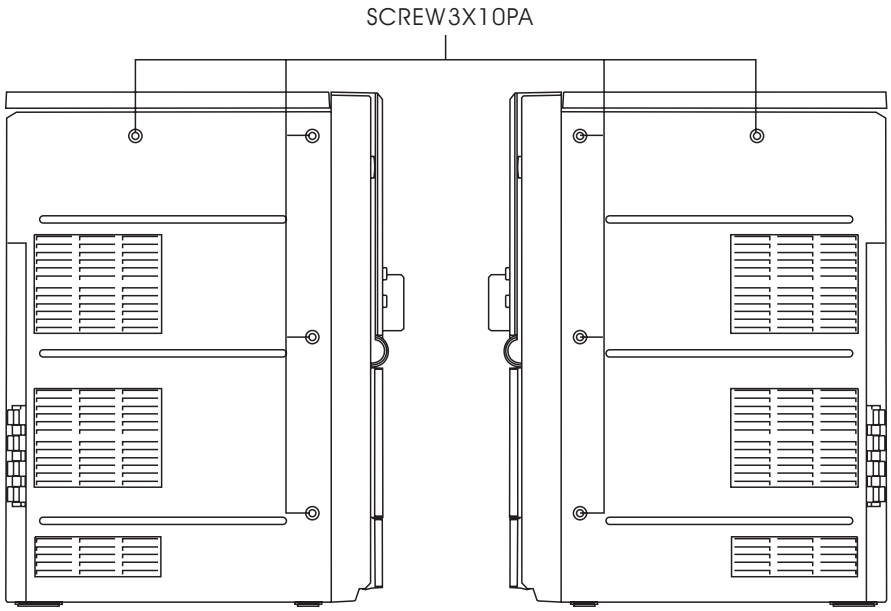


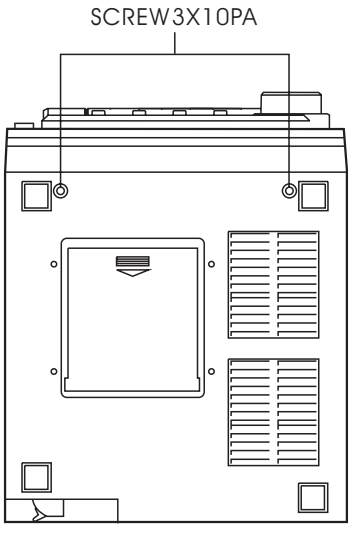
2. PRODUCT SAFETY NOTICE
   some electrical and mechanical parts have special safety related characteristics which are often not evident from visual inspection. Nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage , wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematic and parts list. Use of a substitute replacement that dose not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever Appropriate.
3. Servicing precautions
   CAUTION: before servicing the unit covered by this service by this service manual and its supplements. Read and follow the SAFETY PRECAUTIONS on this page.
   NOTE: if unforeseen circumstances create a conflict between the following servicing precautions and any of the Safety precautions, always follow the safety precautions.
   Remember: safety first.
   General servicing precautions.
   a. Always unplug the unit ' s AC power cord from the AC power source Before:
   (1)removing or reinstalling any component, circuit board, module or any other unit assembly.
   (2)disconnecting or reconnecting any unit electrical plug or other Electrical connection.
   (3)connecting a test substitute in parallel with an electrical capacitor caution: a wrong part substitution or incorrect polarity installation Of electrolytic capacitors may result in an explosion hazard
   b. Do not defeat any plug/socket b+ voltage interlocks with which the unit covered by this service manual might be equipped.
   c. Do not apply AC power to this unit and/or any its electrical assemblies unless all solid-state device heat sinks are correctly installed.
   d. Always connect a test unit instrument ' s ground lead to the unit ' s chassis ground before connecting the test instrument ' s positive lead always remove the test instrument ' s ground lead last.
4. Laser precautions
   Warning!
   (1)When servicing.(Incase it isnecessary to confirmlaser Beam emission) besure not toplace your eyesany closer than1or 30cm from thesurface of the objective lens on the optical pickup block.
   HANDLING THE LASERPICKUP
   (2)Laser Diodesare Extremely Susceptibleto damage from static electricity even ifa static dischargedies not ruin the diode, itcan shorten its lifeor cause itto work improperly.When replacing the pickup, usea conductive maton the floorand desk andwear a wrist band connected to groundthrough a 1Mohm resistor to protect the laserdiode from staticdamage. If thelens should get dusty, blow off thedust carefully fromthe object.
   (3)There areno adjustable partsin the pickupassembly. If it is defective, replace the wholepickup assembly.

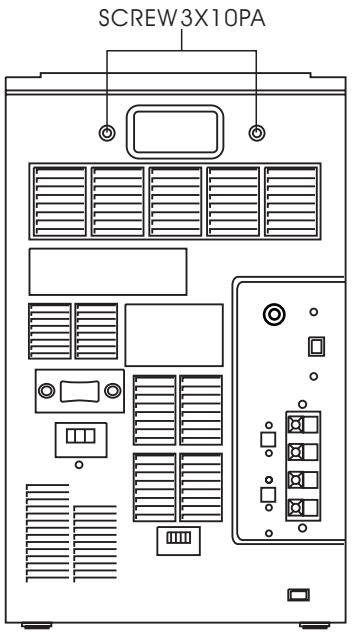
CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DANGER: IF INTERLOCK FAILS OR IS DEFEATED, THE LASER LIGHT IS ABLE TO FUNCTION. THE LASER IS INVISIBLE, AVOID DIRECT EXPOSURE TO BEAM.

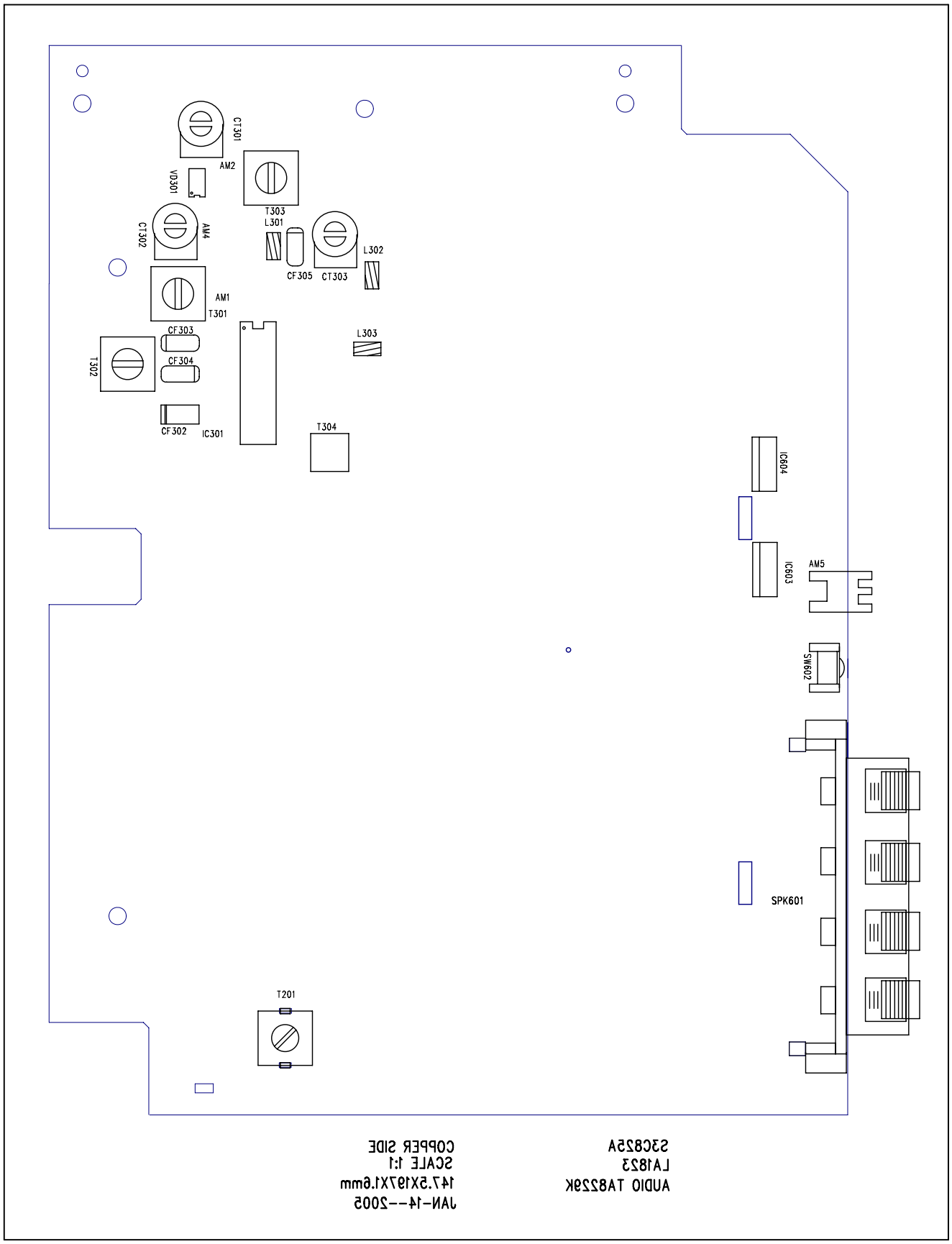
DISASSEMBLY INSTRUCTIONS







ADJUSTMENT LOCATIONS



CASSETTE SECTION **NE-562MP3** **DATE:12-ARP-2004**

STEP	ITEM	TEST EQUIPMENT	TEST TAPE	ADJUST	REMARK
1	MOTOR SPEED ADJ. & WOW/FLUTTER CHECK	WOW/FLUTTER METER WITH FREQ. COUNTER CONNECT TO SPEAKER OR DUMMY LOAD	MTT-111N (3KHz)	(1)CHECK MOTOR SPEED TO 3KHz +3%-2%	TAPE POSITION
2	HEAD AZIMUTH	AC VOLT METER OSCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD	MTT-113N (6.3KHz)	ADJUST THE R/P HEAD SCREW FOR MAX OUTPUT	TAPE POSITION
3	PLAYBACK FREQ RESPONSE	SAME AS ABOVE	MTT-257	CHECK FREQ RESPONSE TO MEET SPECIFICATION	TAPE POSITION
4	RECORDING	AC VOLT METER OCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD FM SIGNAL GEN CONNECT TO ANT. INPUT 1mV,40KHz DEV.	BLANK TAPE	RECORED & PLAYBACK FORM FM SIGNA TO MEET SPECIFICATIONS: REC LEVEL, DISTORTION & FREQ. RESPONSE	TAPE POSITION

CASSETTE SECTION **NE-562MP3** **DATE:28-JUL-2004**

STEP	ITEM	TEST EQUIPMENT	TEST TAPE	ADJUST	REMARK
1	MOTOR SPEED ADJ. & WOW/FLUTTER CHECK	WOW/FLUTTER METER WITH FREQ. COUNTER CONNECT TO SPEAKER OR DUMMY LOAD	MTT-111N (3KHz)	(1)CHECK MOTOR SPEED TO 3KHz +3%-2%	TAPE POSITION
2	HEAD AZIMUTH	AC VOLT METER OSCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD	MTT-113N (6.3KHz)	ADJUST THE R/P HEAD SCREW FOR MAX OUTPUT	TAPE POSITION
3	PLAYBACK FREQ RESPONSE	SAME AS ABOVE	MTT-257	CHECK FREQ RESPONSE TO MEET SPECIFICATION	TAPE POSITION
4	RECORDING	AC VOLT METER OCILLOSCOPE CONNECT TO SPEAKER OR DUMMY LOAD FM SIGNAL GEN CONNECT TO ANT. INPUT 1mV,40KHz DEV.	BLANK TAPE	RECORED & PLAYBACK FORM FM SIGNA TO MEET SPECIFICATIONS: REC LEVEL, DISTORTION & FREQ. RESPONSE	TAPE POSITION

MODEL:NE-562MP3

– FM AND AM RF ALIGNMENT CHART (IF) Date: 28-Jul-04

Step	item	Input Circuit Setup	Output Circuit Setup	Tuner setting	Adj - Point	Adjustment
Unless otherwise specified set switches as follows: FM Function: FM Adjust generator frequency to a center of the FM band where no FM broadcast exists						
1	IF Adjustment	Connect FM IF sweep output terminal to IC302	Connect Co19 and GND IF-OUT terminal to IF sweep input terminal	FM in band end	T304	Adjust for straight and symmetrical S-curve with max.amplitude.
2	FM Band setup		Headphone jack or speaker terminal	87.5 MHz	L303	Adjust L301 for max output
				108MHz		Done
3	Tracking (1)	FM SG ANT. Terminal 90.1 MHz, 1kHz, +-22.5kHz dev	Headphone jack or speaker terminal	90.1 MHZ MONO	L302	Adjust for max.output and best waveform
4	Tracking (2)	106.1 MHz, 1 kHz +-22.5 MHz dev	Headphone jack or speaker terminal	106.1 MHz	CT303	Same as above.
5	Repeat steps 3 and 4.					
MW						
1	IF Adjustment	Connect standard loop antenna to output ter-minal of genescope	Connect input terminal genescope to detector output	MW in band end	T302	Adjust tor max. amplitude with symmetrical 450 kHz.
2	MW Band		Headphone jack or speaker terminal	522 kHz	T301	Adjust L135 for max output
				1620 kHz	CT302	Adjust CT133 for max output
3	Tracking (1)	612 kHz 400 kHz, 3% mod	Headphone jack or speaker terminal	612 kHz	T303	Adjust for max.output and best waveform
4	Tracking (2)	1404 kHz 400 kHz, 3% mod	Headphone jack or speaker terminal	1404 kHz	CT301	Same as above.
5	Repeat steps 3 and 4.					

– TAPE SECTION

HEAD ADJUSTMENT (AZIMUTH)

10 kHz test tape (example:MTT-114N) must be used for this adjustment. Connect to VTVM or oscilloscope to the head-phone JCK or speaker terminal Press the play button.

Adjust the azimuth by using a screw driver to maintain the maximum L & R output voltage. Adjust tape. Please secure the azimuth position by using locking paint.

RECODING BIAS OSCILLATOR FREQUENCY ADJUSTMENT

Connect the frequency counter to of R601 two ends.

Press REC button of tape .

Adjust T201 obtain 60 kHz +-100 HZ

FM RECEIVER PERFORMANCE DATA

MODEL: NE-563PLL+MP3 (5W) Date:

Band: FM

Supply Voltage: AC 230 V Measured By: _____

Standard Output: 50 mw

Dummy Load: 4 ohm Approved By: _____

Modulation: 1 KHz 22.5 KHZ DEV

EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Frequency Range	Low	MHz	87.5	+/-0.3		
	High	MHz	108	+/-0.3		
IF Frequency		MHz	10.7	+/-0.2		
30db Quieting	90.1 MHz	db	18	26		
Sensitivity	98.1 MHz	db	18	26		
	106.1 MHz	db	18	26		
Auto Locked	90.1 MHz	db	26	32		
Sensitivity	98.1 MHz	db	26	32		
	106.1 MHz	db	26	32		
ACA	+300 KHz	db	20	15		
(2-Signal)	-300 KHz	db	20	15		
Image Rejection	AT 106.1 MHz	db	22	16		
IF Rejection	AT 90.1 MHz	db	50	40		
-3db Limiting Sens .	1mv I/P	db	18	26		
AM Suppression	1mv I/P	db	35	30		
S/N (1mv input	Mono	db	50	45		
W/A-Fliter)	Stereo	db	35	30		
Stereo Sens		db	20	26		
Stereo Lamp On Sens.		db	20	26		
Separation R/L		db	25	20		
Freq.Response-3db	Low	Hz	80	≦100		
(W/50uS Pre-emphasis)	High	KHz	10	≧8		
Modulation Hum	1 mv I/P	db	40	35		
Hum & Noise(min.vol.)		mv	1	3		
Output (10% Dist) (MOD=40KHz)		mW	4500	4000		
Total Harmonic Distortion	1 mv I/P	%	1	3		
OSC Drop Out	1 mv I/P	V				
Current	No signal	mA				
Consumption	Max	mA				

MW RECEIVER PERFORMANCE DATA

MODEL: NE-563PLL+MP3 (5W) Date:

Band: MW

Supply Voltage: AC 230 V Measured By: _____

Standard Output: 50 mw

Dummy Load: 4 Ohm Approved By: _____

Modulation: 1 KHz 30%

EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Frequency Range	Low	KHz	522	+/-10		
	High	KHz	1620	+/-10		
IF Frequency		KHz	450	+/-2		
20db Quieting Sensitivity	612 KHz	dB/M	60	66		
	999 KHz	dB/M	60	66		
	1404 KHz	dB/M	60	66		
Auto Locked Sensitivity	612 KHz	dB/M	66	70		
	999 KHz	dB/M	66	70		
	1404 KHz	dB/M	66	70		
S/N 5mv/M		dB	35	30		
ACA	+9 KHz	dB	18	12		
	-9 KHz	dB	18	12		
Band Width-6dB	+Side	KHz	3	10		
	-Side	KHz	3	10		
Image Rejection	AT 1404 KHz	dB	35	30		
IF Rejection	AT 612 KHz	dB	50	40		
Spuerious Response	4-10MHz	dB	40	35		
	10-30MHz	dB	50	45		
AGC FOM-10db	100mv/M	dB	45	35		
Audio Freq. Response-6db	Low	Hz	80	≦100		
	High	KHz	2.4	≧2.0		
Modulation Hum	100 mv/M	dB	38	32		
Hum (Volume At Min)		mv	1	3		
Output (10% Dist) (MOD=80%)		mW	4500	4000		
Total Harmonic Distortion	5mv/M	%	2	4		
OSC Drop Out	5mv/M	V				
Current Consumption	No signal	mA				
	Max	mA				

CASSETTE PLAYBACK PERFORMANCE DATA

MODEL: NE-563 PLL&MP3 (5W) Date:

Supply Voltage: AC 230 V
Standard Output: 50 mw Measured By: _____
Dummy Load: 4 Ohm
0DB=1V Approved By: _____
EQ or Tone at Flat Place Bass OFF Place
Tape Speed 4.76cm/sec.1 $^{7}/_{8}$ I n

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Tape Speed Enor	at 3 KHz	%		+3/-2		
WOW & Flutter	at 3 KHz	%	0.25	0.35		
Play Freq Response	at Hz	dB				
	at 125 Hz	dB	+/-3	+/-6		
	at 1 KHz	dB	0	0		
	at 10 KHz	dB	+/-3	+/-6		
	at KHz	dB				
P/B S/N (1K odB)	DC Opetation	dB				
	AC Optetaion	dB	45	40		
Min Vol Hum & Noise	AC Optetaion	mv	1	3		
Max Vol Hum & Noise	AC Optetaion	mv	20	30		
10% THD Output	(1KHz odB) RMS	mw	4500	4000		
THD	at Hz	%				
-10dB 1KHz	at 1 KHz	%	1	3		
	at KHz	%				
Track Crosstalk		dB	40	30		
Channel Separation	R-L	dB	40	30		
	L-R	dB	40	30		
Channel Balance	-10dB 1KHz	dB	1	3		
No Signal Current	Min. Vol. Blank Tape	mA				
Max Output	Max. Vol	A				
Play Torque		g/cm				
F.F Torque		g/cm				
Rew Torque		g/cm				
Time for Play		Min				
Time for F.F		Sec				
Time for Rew		Sec				
Play Level	Tape = 0dB Ref	dB	0	0		
CD Play	1KHz-10dB	dB	-2	- 4		
Radio	FM 1KHz 40KHz	dB	+/-1	+/-3		

CASSETTER REC/PLAY PERFORMANCE DATA

MODEL: NE-563 PLL&MP3 (5W) Date:

Supply Voltage: AC 230 V

Standard Output: 50 mw Measured By: _____

Dummy Load: 4 Ohm

0DB=1V Approved By: _____

EQ or Tone at Flat Place Bass OFF Place

Tape Speed 4.76cm/sec.1 $^{7}/_{8}$ I n

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
Rec Blas System AC		KH z	55	60		
Erasing System Magnet			6PA			
Erasing Ratio		dB	38	33		
ALC Compresion Time for 20db		dB				
Stansatding up for -20db at 90%		Sec				
Recovery time for -20db at 90%		Sec				
R/P Frep Response	at 100 Hz	dB	+/-3	+/-6		
REC CD(-20dB)	at 1 KHz	dB	0	+/-3		
	at 10 KHz	dB	+/-3	+/-6		
R/P S/N	Built Mic	dB				
	FM 1mv/in	dB	38	33		
R/P THD	at -10dB 1KHz	%	5	10		
R/P Channal Separation	L-R	dB	40	30		
(1KHB 0dB)	R-L	dB	40	30		
Record Level Tape = -10dB		dB	0	0		
CD 1KHz -20dB		dB	+/-2	+/-4		
Radio FM 1KHz 12.5KHz		dB	+/-2	+/-4		
Remote Control Sensitivity		m	7	5		
Headphone Out Level (32 ohm)		mW	20	15		
Bass Tone Action	at Hz	dB				
Prest EQ REF O/P 0dB PASS						
CLASSIC	100 Hz	dB	+4	+/-2		
	1K Hz	dB	+3	+/-2		
	10K Hz	dB	+8	+/-2		
ROCK	100 Hz	dB	+8	+/-2		
	1K Hz	dB	+3	+/-2		
	10K Hz	dB	+6	+/-2		
POP	100 Hz	dB	- 4	+/-2		
	1K Hz	dB	- 2	+/-2		
	10K Hz	dB	- 4	+/-2		
JAZZ	100 Hz	dB	+6	+/-2		
	1K Hz	dB	+2	+/-2		
	10K Hz	dB	+4	+/-2		

CD PLAYBACK PERFORMANCE DATA

MODEL: NE-563 PLL+MP3 (5W) Date:

Supply Voltage: AC 230 V
Standard Output: 50 mw Measured By: _____
Dummy Load: 4 Ohm
0dB=1V Approved By: _____
EQ or Tone at Flat Place Bass OFF Place

Measuring Items		Unite	Norm	Limit	Sample1	Sample2
WOW & Flutter		%				
Play Freq Response (0dB)	at 40 Hz	dB	- 2	+/-3		
	at 61 Hz	dB	- 1	+/- 2		
	at 127 Hz	dB	0	+/-2		
	at 1 KHz	dB	0	0		
	at 10 KHz	dB	0	+/-2		
	at 20 KHz	dB	-3	- 5		
P/B S/N (YEDS)	DC Opetation	dB				
	AC Optetaion	dB	55	50		
Hum & Noise (AC Optetaion)	Min Vol	mv	2	3		
	Max Vol	mv	5	8		
10% THD Output	RMS	mw	4500	4000		
THD (-20dB)	at 1 KHz	%	1	3		
Channel Separation YEDS (0dB)	R-L	dB	40	30		
	L-R	dB	40	30		
Channel Balance (1KHz -10dB)		dB	1	3		
Black Spot	PHILIPS-444A	UM	800	600		
Finger Prints	PHILIPS-444A	TRACK	19	18		
Interruption	PHILIPS-444A	UM	800	600		
Deflection	731RA	MM	1	0.9		
Eccentricity	712R	UM	210	140		
Access Operation	First	Sec				
Time	Last	Sec				
MP3 PLAYBACK PERFORMANCE DATA						
MP3 Playback Transfer Rate		kbps	8~384			
MP3 Max Readable Folder		Folde	200			
MP3 Max Readable Files		File	500			
MP3 Sampling Frequency		KHz	32/44.1/48; 16/22.05/24; 8/11.025/12.			

IC VOLTAGE TABLE

DATE : 28-JUL-2004

{DC12V,NO SIGNAL INPUT (EXCEPT FM STEREO BAND),VOLUME MINMUN}

AC 230V 50HZ LA1823 &LC72131 & AN7312 & PT2313L

MODEL : NE-562MP3 5W TA8229K & PT2221 & S3C825AX27

TUNER LA1823+LC72131 S1l9226X01 & KA9259D & S5L9279X01 & JF1M16SDT-7

IC302 LA1823	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	AM	1.27	1.27	4.61	4.61	2.62	0	0.02	3.38	4.5	1.29	1.28	0.35	4	0.03	0.15	0.74
	FM	1.29	1.29	4.43	4.43	2.16	0	0.02	3.38	4.42	1.29	1.28	0.3	3.67	3.74	3.7	0.73
	FM.ST	1.29	1.29	4.43	4.43	2.16	0	0.02	3.38	4.42	1.29	1.28	0.3	3.67	3.74	3.7	0.73
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**								
	AM	0.74	1.25	0.32	4.61	4.61	4.61	0	0								
	FM	0.74	1.25	1.39	4.47	4.46	4.39	0	0.91								
	FM.ST	0.74	1.25	1.39	4.47	4.36	4.39	0	0.91								

IC301 LC72131	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	AM	**2.25**	**0**	**0**	**3**	**3**	3.64	**3.78**	**3.78**	**0**	**0.02**	4.45	**0.3**	**0**	**0**	**0**	**0.22**
	FM	**2.19**	**0**	**0**	**0.2**	**3**	3.64	**3.9**	**0.02**	**0**	**0.02**	4.45	**0**	**0**	**0**	**0.3**	**2.18**
	FM.ST	2.2	0	0	0.2	3	3.64	3.79	3.79	0	**0.02**	4.45	0	0	0	0.2	2.18
	PINS	**17**	**18**	**19**	**20**	**21**	**22**										
	AM	4.5	0.82	0.82	3.1	**0**	2.3										
	FM	4.5	0.82	0.82	3.1	**0**	2.3										
	FM.ST	4.5	0.82	0.82	3.1	0	2.3										

IC201	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**		
AN7312	**TAPE**	0	1	0	3	1.4	1.3	0	0	1.3	1.4	3	0	6	6		

IC602 PT2313L VOLUM EQ FUN	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	RADIO	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	CD	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	TAPE	6.34	0	3.18	3.18	3.19	3.2	3.19	3.18	3.18	3.18	3.18	3.19	3.18	3.18	3.18	3.18
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**				
	RADIO	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				
	CD	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				
	TAPE	3.19	3.2	3.18	3.19	3.18	3.2	3.2	3.2	**0**	**0.22**	**3.05**	3.19				

IC601	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	
TA8229K	**POWER**	0	16.8	9	17.5	9.1	17	0	17.2	9.1	0.5	0	0	0.6	0	0	

U7 SDRAM 16M	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	DRAM	3.41	2.52	2.42	0	2.2	2.21	3.41	2.2	2.2	0	2.19	2.2	3.41	0	3.41	3.41
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	DRAM	3.41	0	0	3.41	0	0	0	0	3.41	0	0	0	0	0.21	3.41	0
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	DRAM	0.11	1.69	3.41	0	3.41	2.44	2.45	0	2.41	2.45	3.41	2.43	2.44	0	2.43	2.45
	PINS	**49**	**50**														
	DRAM	2.45	0														

U2 S3C825A	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	RADIO	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	CD	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	TAPE	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	AUX	1.41	0	0	0	0	0	0	0	0	0	0	2.88	0	1.39	1.32	0
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**
	RADIO	1.08	1.36	2.87	0	0	0.86	0.3	0.08	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	CD	1	1.36	2.87	0	0	2.87	2.87	2.87	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	TAPE	1	1.36	2.87	0	0	2.87	0.3	0.25	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	AUX	1	1.36	2.87	0	0	2.87	0.3	0.25	0	2.92	1.39	2.92	2.92	2.92	0	1.05
	PINS	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**
	RADIO	0	**0**	0	0	**2.86**	**1.81**	2.86	**0**	**0**	**0**	**0**	**2.73**	**2.73**	**3.4**	**3.54**	**2.91**
	CD	0	2.88	0	0	**2.86**	**1.81**	2.86	0	0	2.79	0	0	0	0.06	0.3	**2.91**
	TAPE	0	0	0	0	**2.86**	**1.81**	2.86	0	0	0	0	**2.73**	**2.73**	0.03	0.7	**2.91**
	AUX	0	0	0	0	**2.86**	**1.81**	2.86	0	0	0	0	**2.73**	**2.79**	0.03	0.7	**2.91**
	PINS	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
	RADIO	**0**	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	CD	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	TAPE	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	AUX	2.91	0	**2.88**	0	**2.88**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	PINS	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
	RADIO	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	CD	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	TAPE	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**
	AUX	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**	**1.42**

U5 KA9259D	**PINS**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
	MOTOR	3.7	3.7	1.69	1.69	7.38	4.99	4.99	0	1.69	1.69	3.7	3.72	0	0	3.72	3.72
	PINS	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**				
	MOTOR	3.72	3.72	1.69	4.32	8	0	1.69	1.69	1.69	3.72	3.72	0				

VOLTAGE CHARTS

U3 S5L9279	PINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	DSP	1	2.07	0	0	0	2.07	0	0	1.7	1.69	3.38	3.38	1.69	0	0	0
	PINS	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	DSP	3.38	1.66	0	0	0	0	0	3.38	0	0	0	0	0	3.38	0	0
	PINS	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	DSP	0	0	3.38	0	0	3.31	3.37	3.38	0	2.07	0	2.45	2.46	2.51	2.46	2.48
	PINS	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	DSP	2.46	2.48	2.09	0	0	2.4	2.82	2.62	2.7	0.77	0.73	0.36	2.76	2.07	0	1.13
	PINS	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
	DSP	0	2.76	1.72	3.38	3.38	0	3.38	0	0	3.38	3.38	1.69	0	0	0	0
	PINS	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
	DSP	0	0	1.61	1.7	2.07	0	2.88	0	2.75	1.63	0	0.06	0	0	0	0
	PINS	97	98	99	100												
	DSP	0	0.07	1.69	0												

U1 S1L9226	PINS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	SSP	1.71	1.75	1.69	1.52	1.7	3.38	1.7	0.82	1.69	1.68	1.72	1.63	3.38	2.79	2.82	2.87
	PINS	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SSP	2.87	0.07	1.69	0	0	0	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
	PINS	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SSP	0	1.71	1.66	1.66	3.37	0	1.71	1.71	1.71	1.71	1.69	1.22	0.89	2.5	1.71	2.45

IC602 KA7808	PINS	1	2	3
		14	0	8

RE901 RECEIVEER	PINS	1	2	3
		4.4	0	4.4

Q607 8050	PINS	E	B	C
		5.8	4.3	12.9

Q304 9014C	PINS	E	B	C
		10.3	11	16.8

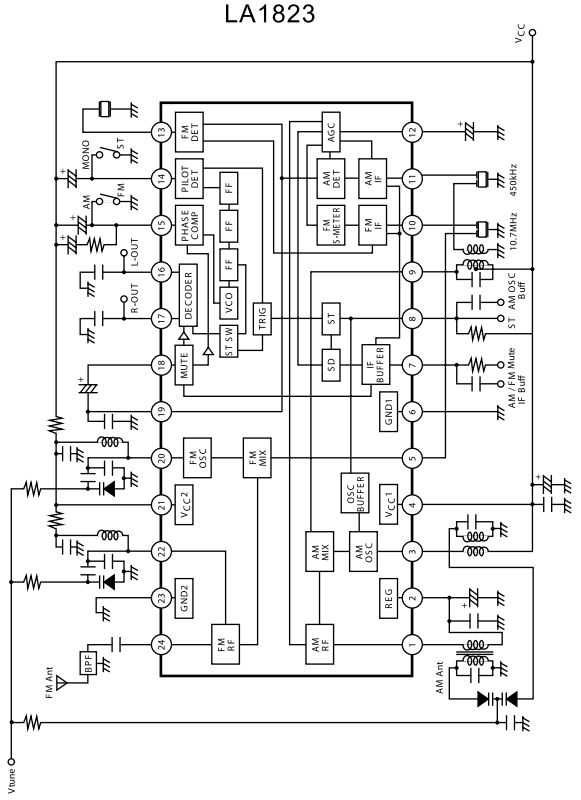
Q620 8050	PINS	E	B	C
		6.2	6.8	10

Q303 8050C	PINS	E	B	C
		4.5	5.2	7.6

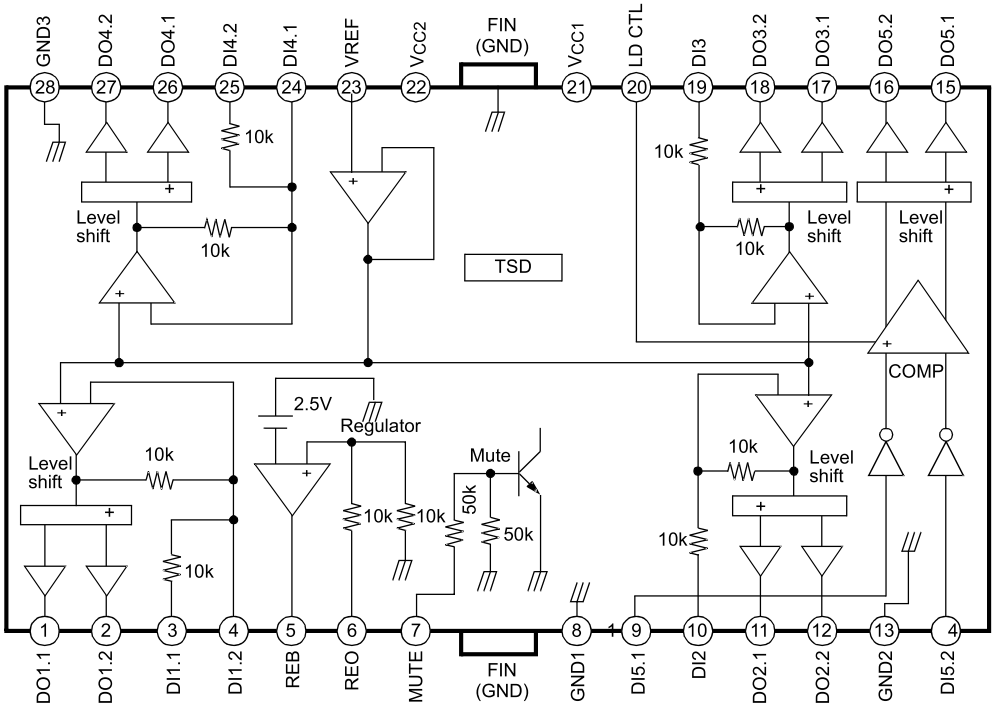
REMARK : ALL THE DATA IN THE TABLE IS FOR.REFERENCE ONLY
FOR FM.ST BAND , FM STEREO INDICATOR MUST BE ON.

IC BLOCK DIAGRAM

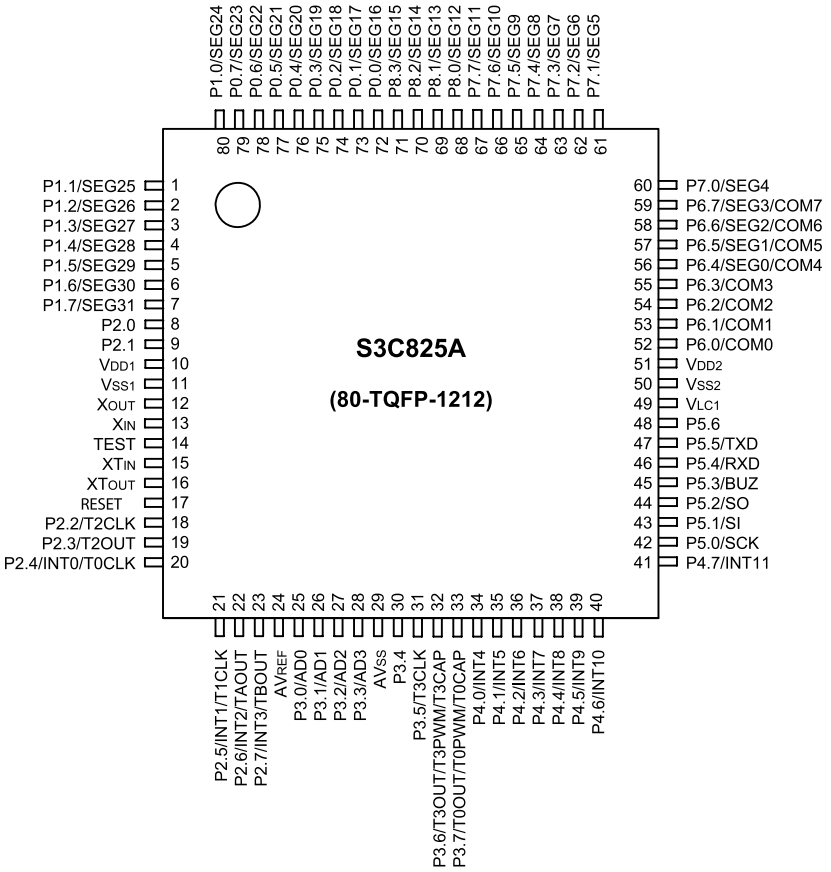
LA1823



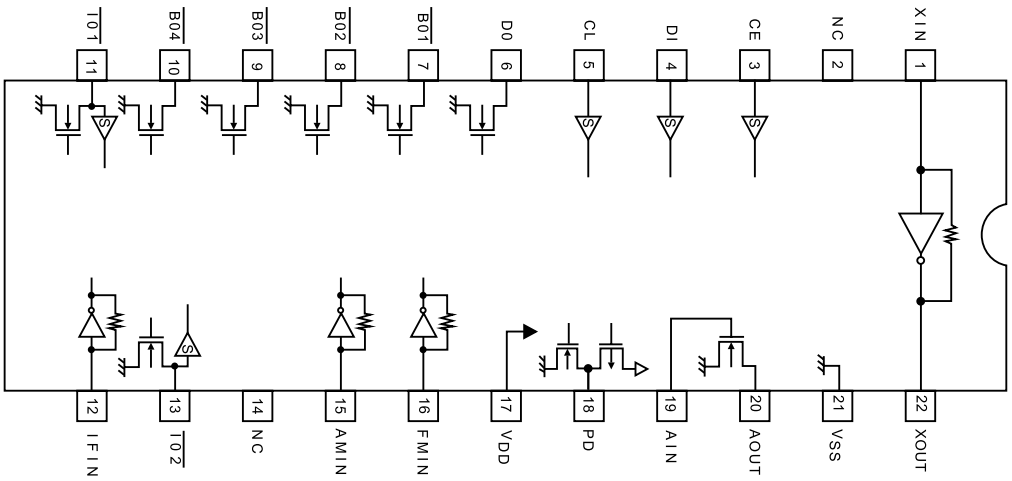
KA9259D(KA9259ED)



IC BLOCK DIAGRAM

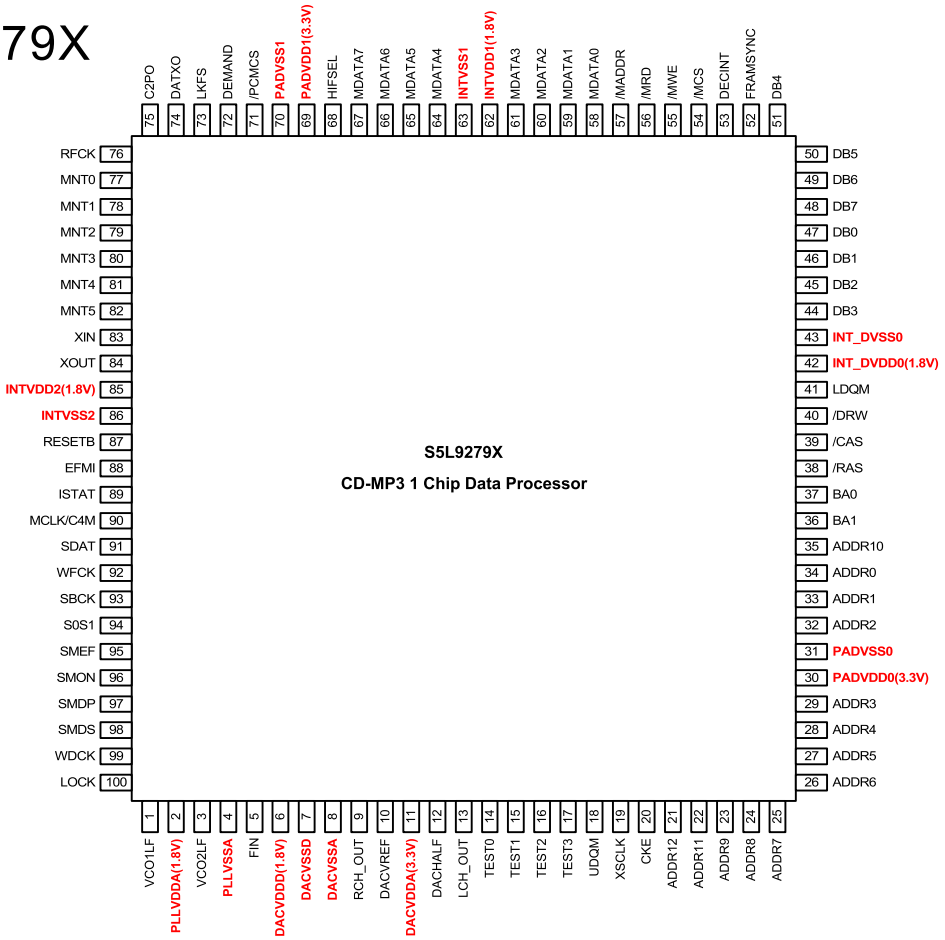


LC72131

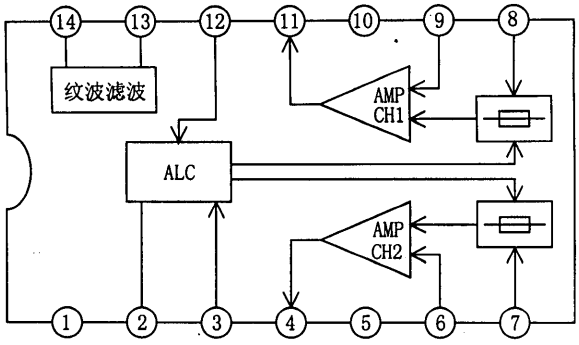


IC BLOCK DIAGRAM

S5L9279X

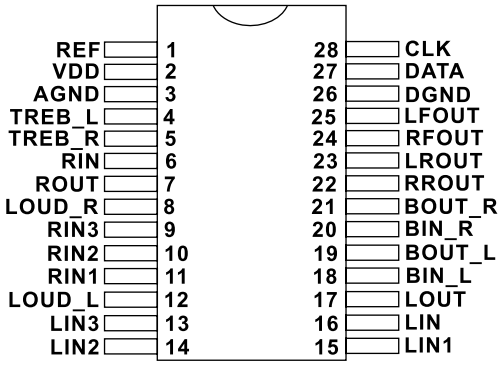


AN7312

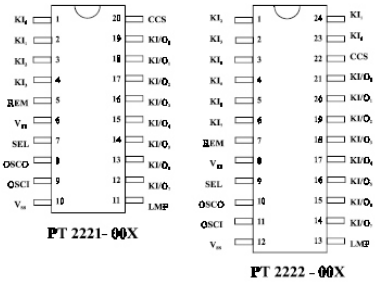


IC BLOCK DIAGRAM

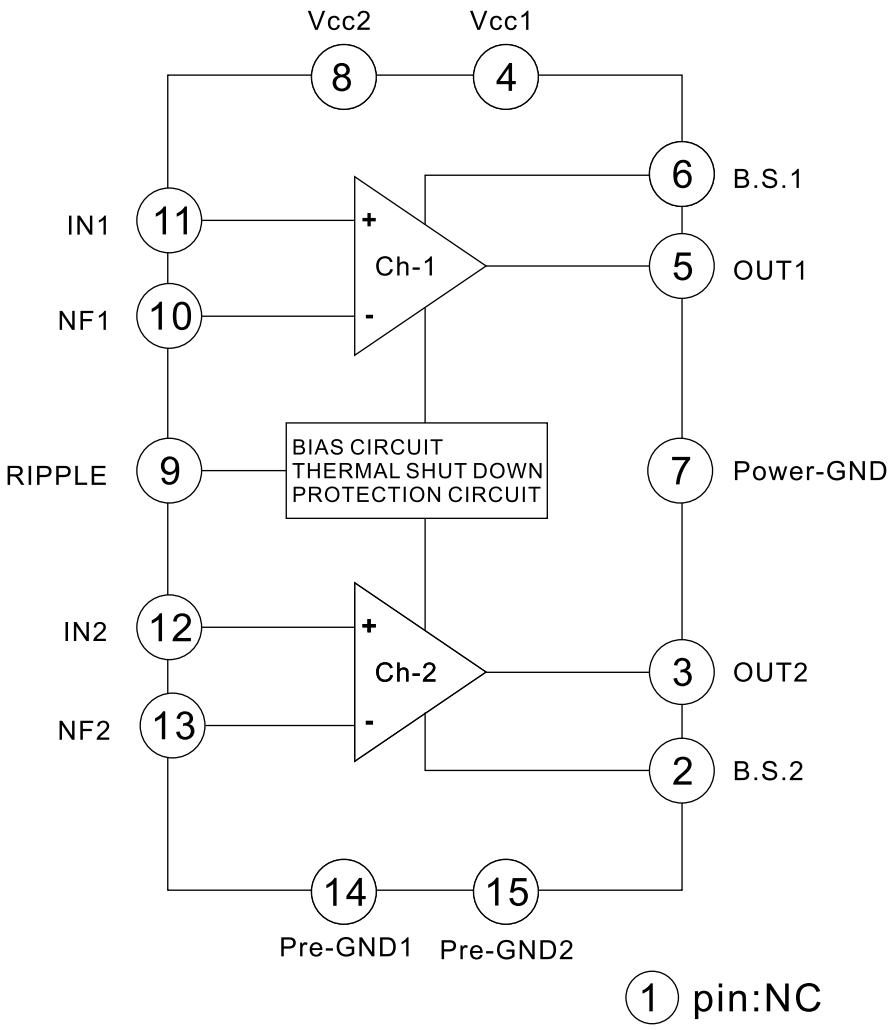
PT2313L



PIN CONFIGURATION



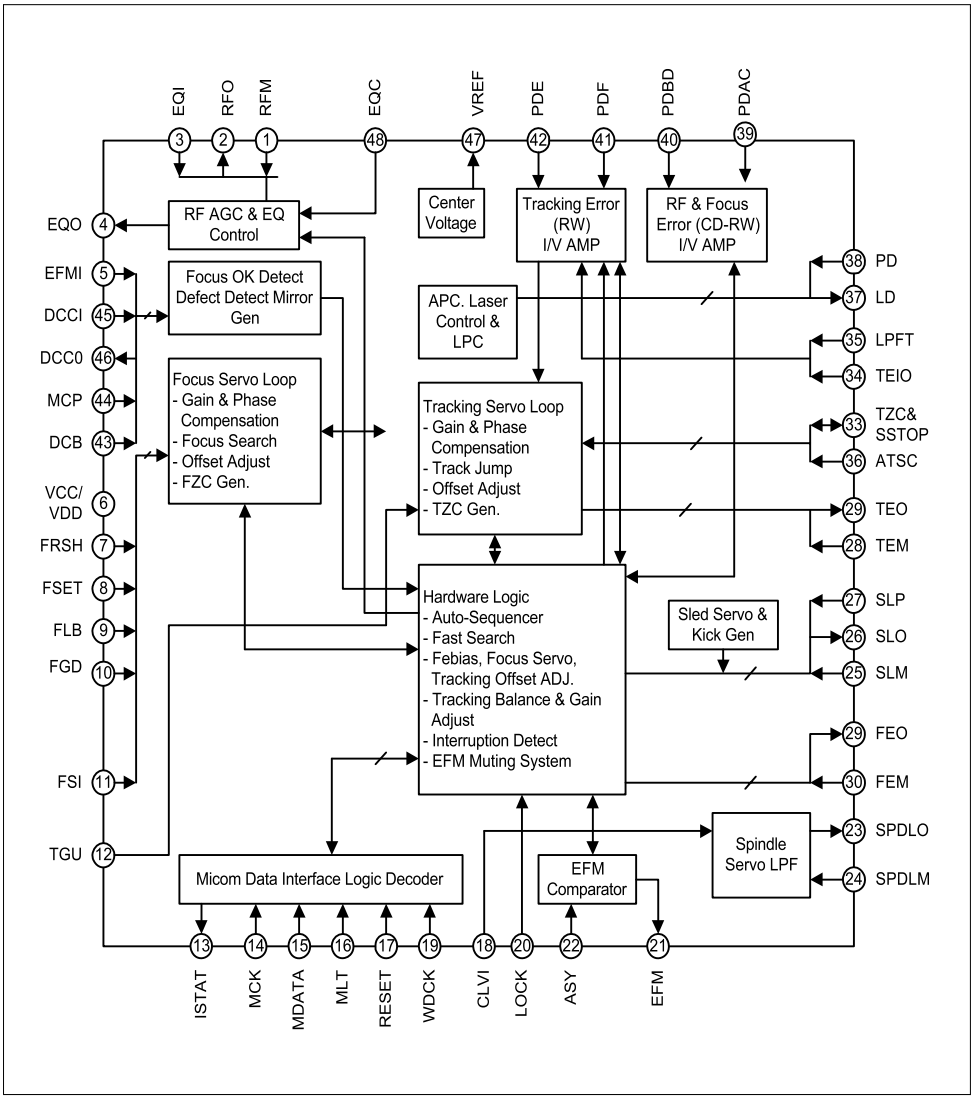
TA8229K



(1) pin:NC

IC BLOCK DIAGRAM

S1L9226X



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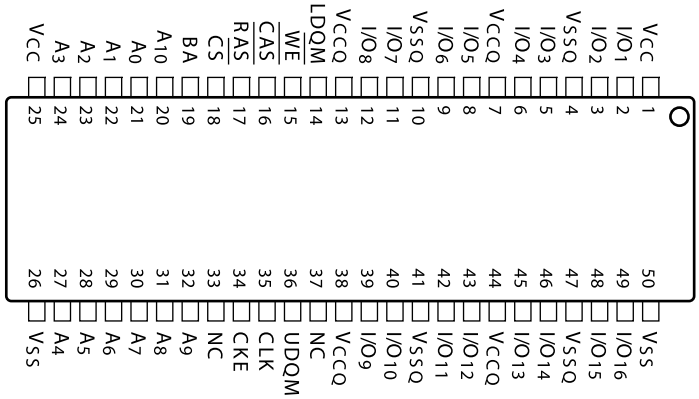
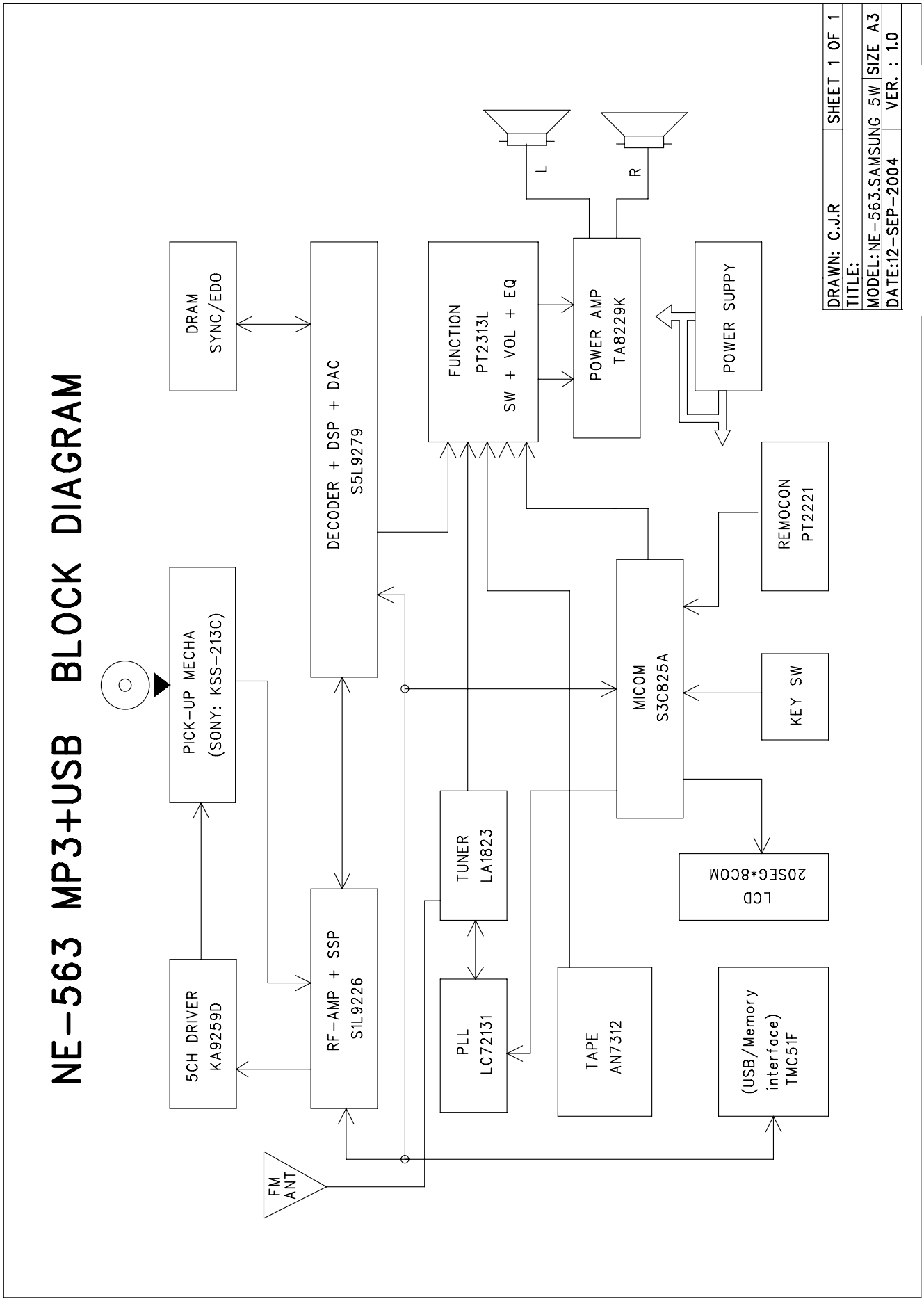
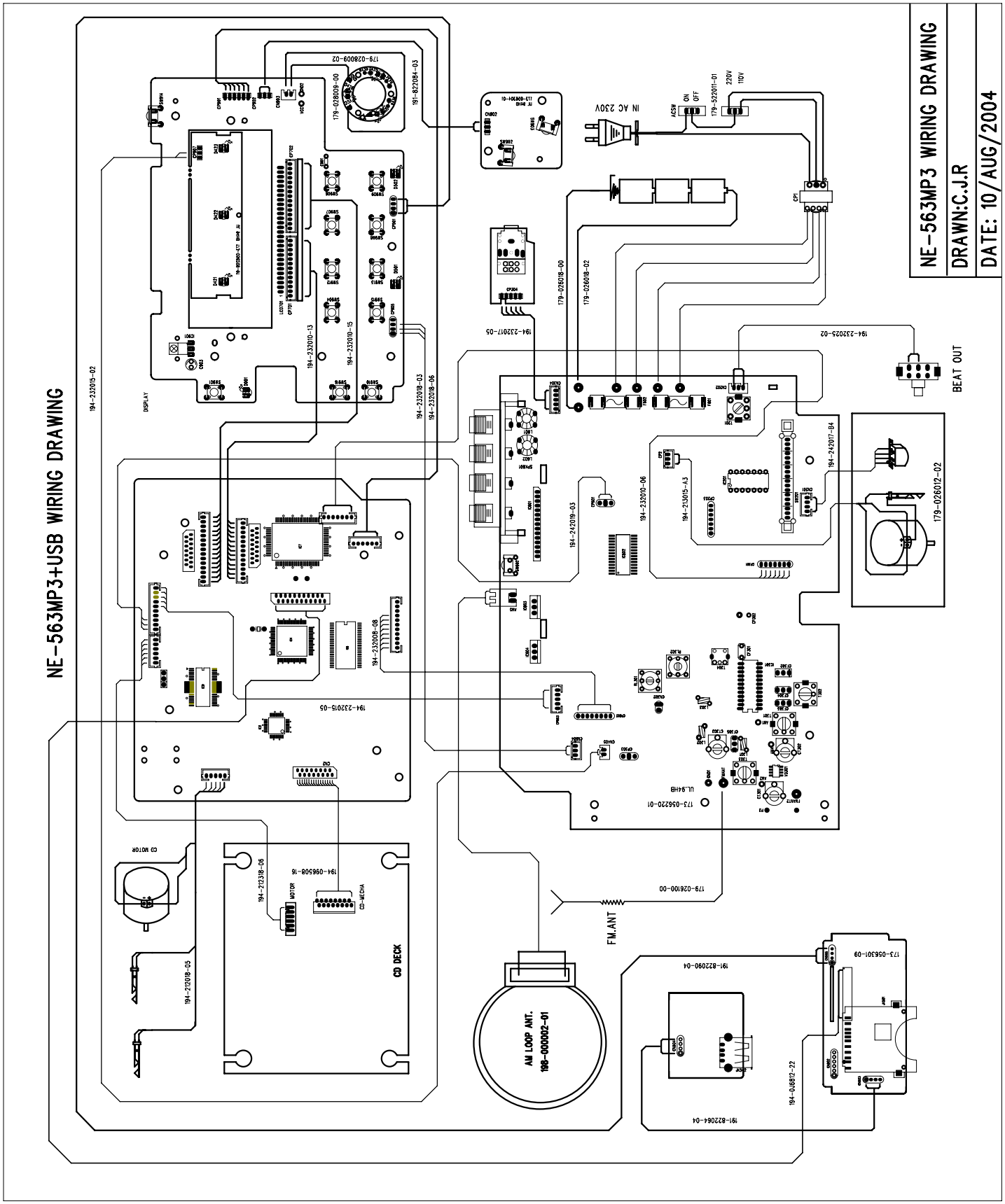
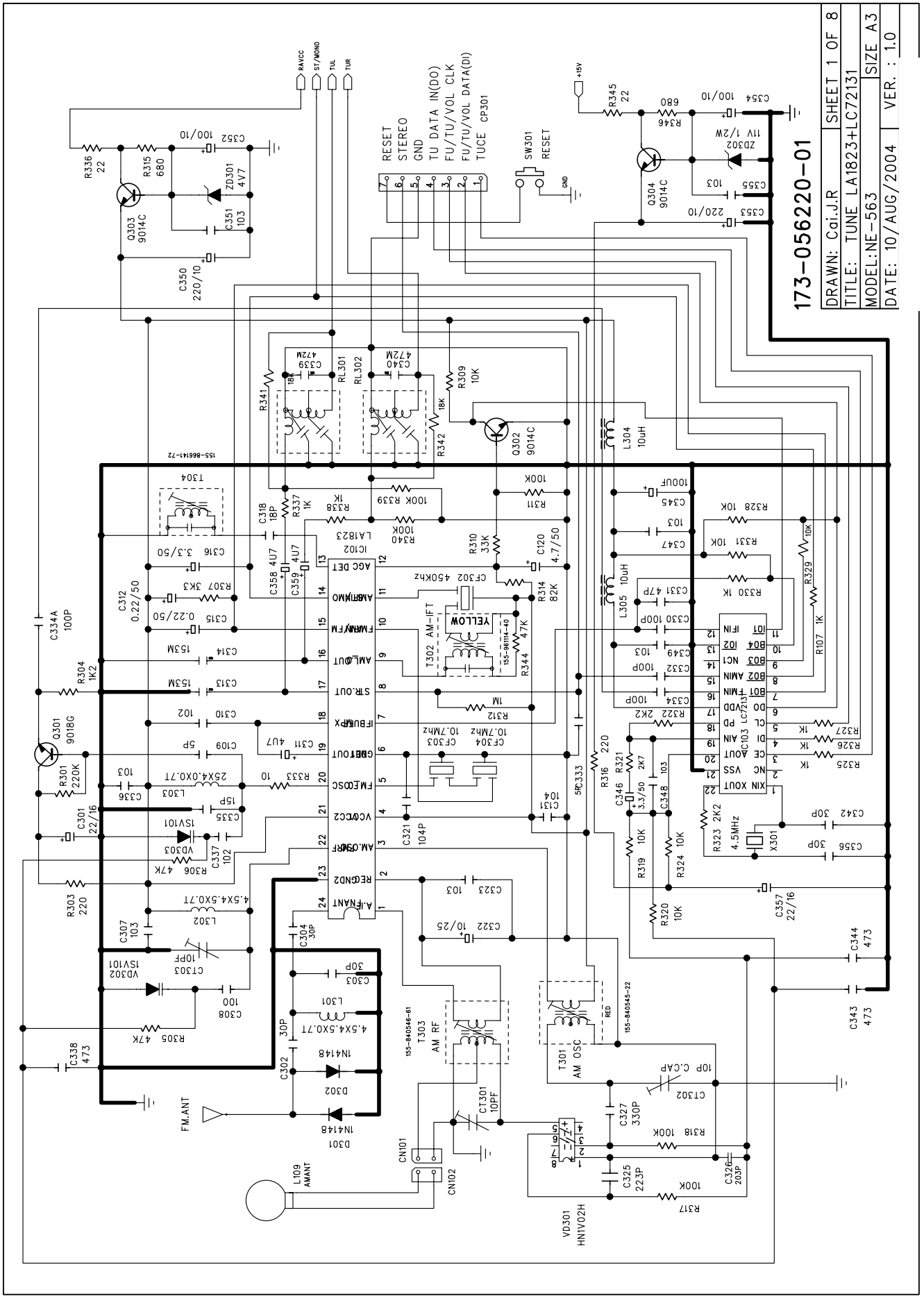


BLOCK DIAGRAM



WIRING DIAGRAM




173-056220-01
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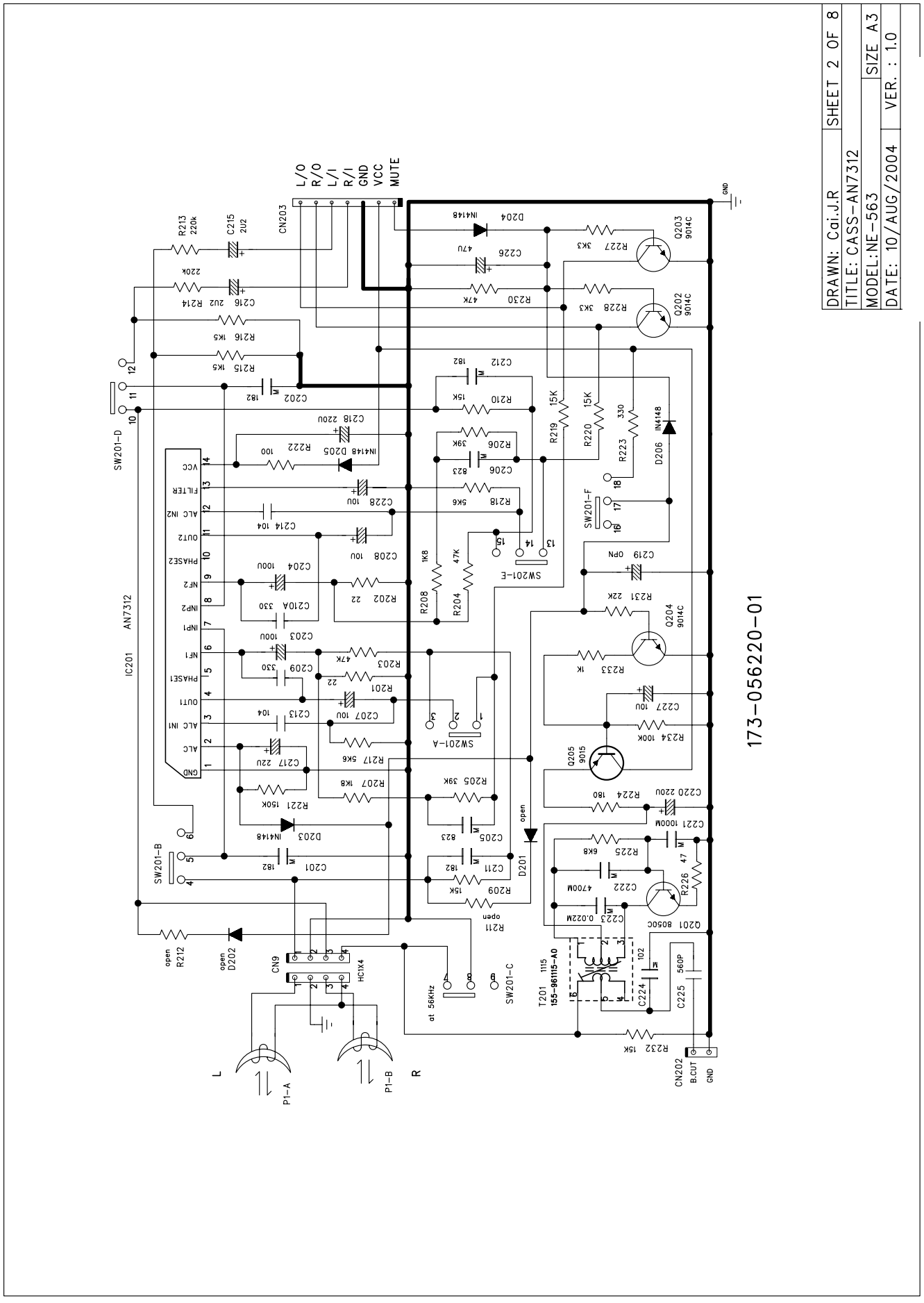
TITLE: TUNE LA1823+LC72131
MODEL:NE-563
DATE: 10/AUG/2004
SHEET 1 OF 8
SIZE A3
VER. : 1.0
RAVCC
ST/MONO
TUL
TUR
RESET
STEREO
GND
TU DATA IN(DO)
FU/TU/VOL CLK
FU/TU/VOL DATA(DI)
TUCE CP301
SW301
RESET
+15V
Q303 9014C
Q304 9014C
Q302 9014C
Q301 9018G
IC102 LA1823
IC103 LC72131
T301 AM OSC
T302 AM-IFT
T303 AM RF
T304
X301 4.5MHz
FM.ANT
L109 AMANT
VD301 HN1V02H
D301 1N4148
D302 1N4148
CN101
CN102


DRAWN: Cai.J.R
SHEET 2 OF 8
TITLE: CASS-AN7312
MODEL:NE-563
SIZE A3
DATE: 10/AUG/2004
VER. : 1.0
173-056220-01
IC201 AN7312
SW201-D
SW201-B
SW201-F
SW201-E
SW201-A
SW201-C
CN203
CN9
CN202
T201 155-961115-A0
Q203 9014C
Q202 9014C
Q204 9014C
Q205 9015
Q201 8050C
D204 IN4148
D206 IN4148
D205 IN4148
D203 IN4148
D202
D201
L/O
R/O
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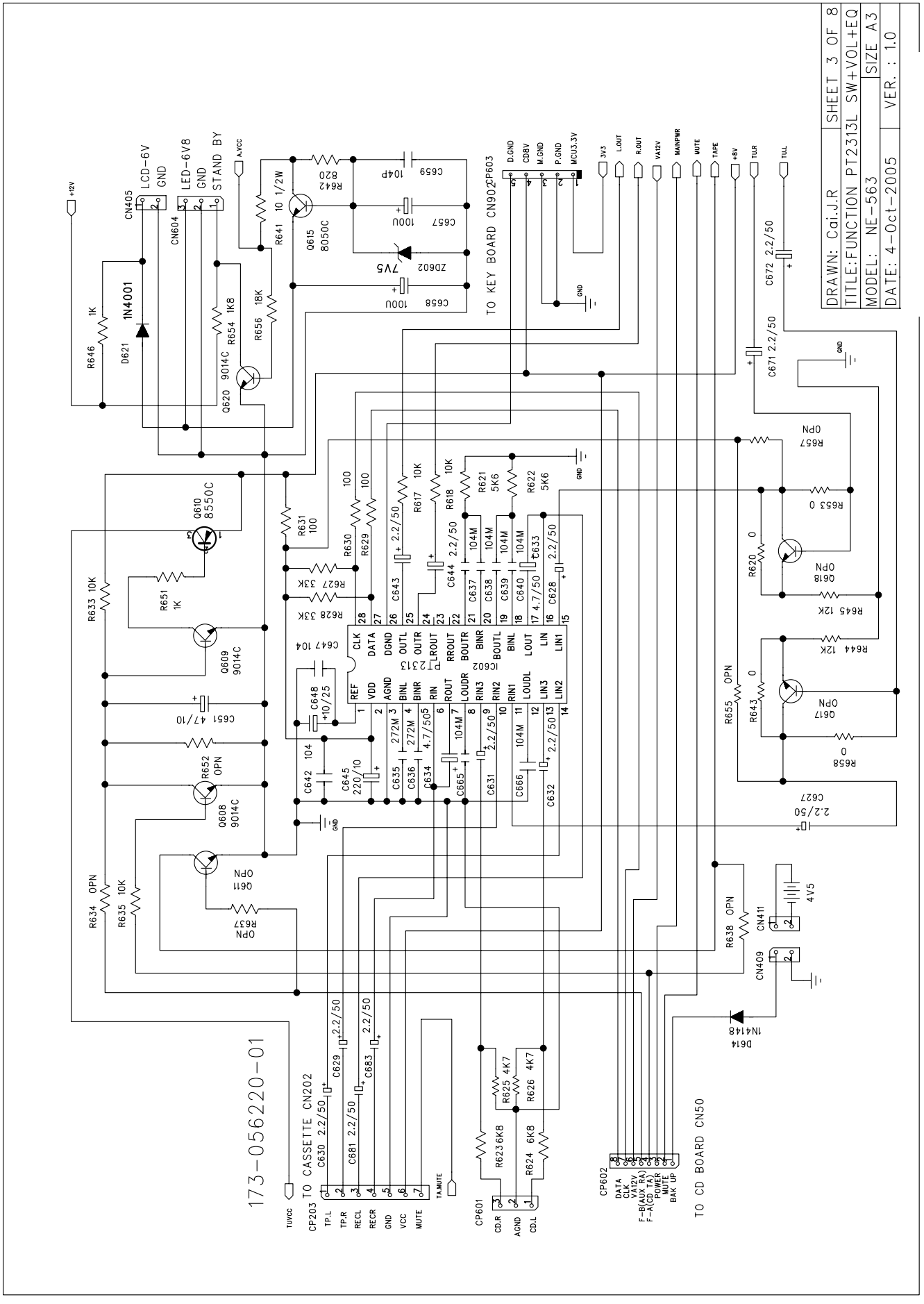
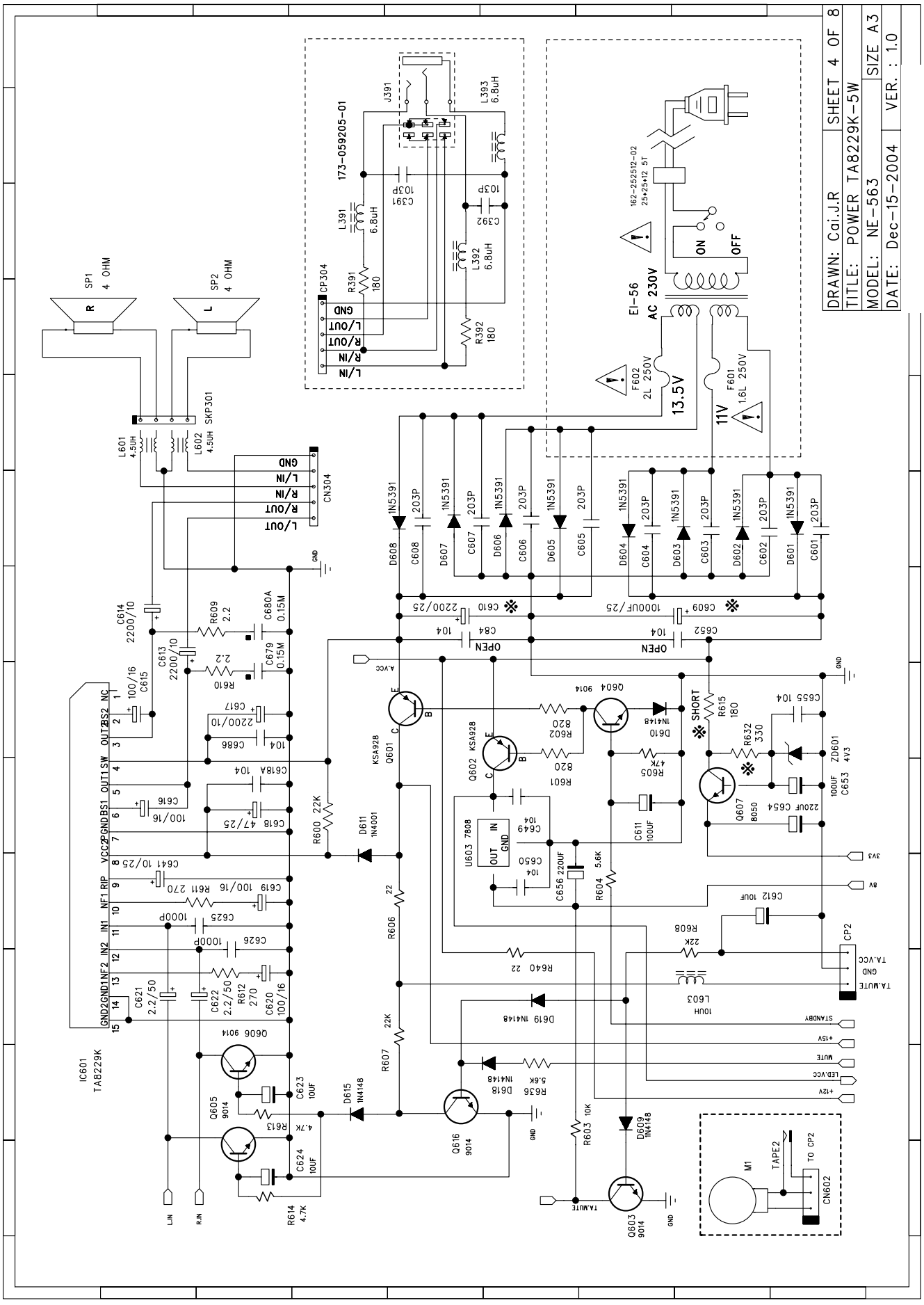
P1-A
P1-B
at 56KHz
HC1X4
B.CUT


DRAWN: Cai.J.R
SHEET 3 OF 8
TITLE:FUNCTION PT2313L SW+VOL+EQ
MODEL: NE-563
SIZE A3
DATE: 4-Oct-2005
VER. : 1.0
TO KEY BOARD CN902 CP603
TO CASSETTE CN202
TO CD BOARD CN50
173-056220-01
PT2313
CN405
CN604
CN409
CN411
CP203
CP601
CP602
D621 1N4001
D614 1N4148
Q620 9014C
Q608 9014C
Q609 9014C
Q610 8550C
Q615 8050C
ZD602 7V5
4V5


DRAWN: Cai.J.R
TITLE: POWER TA8229K-5W
MODEL: NE-563
DATE: Dec-15-2004
SHEET 4 OF 8
SIZE A3
VER. : 1.0
EI-56
AC 230V
ON
OFF
13.5V
11V
F602 2L 250V
F601 1.6L 250V
SP1 4 OHM
SP2 4 OHM
R
L
SKP301
CN304
CP304
173-059205-01
J391
L391 6.8uH
L392 6.8uH
L393 6.8uH
C391 103P
C392 103P
R391 180
R392 180
L601 4.5UH
L602 4.5UH
L/OUT
R/OUT
R/IN
L/IN
GND
IC601
TA8229K
Q601 KSA928
Q602 KSA928
Q603 9014
Q604 9014
Q605 9014
Q606 9014
Q607 8050
Q616 9014
D601 1N5391
D602 1N5391
D603 1N5391
D604 1N5391
D605 1N5391
D606 1N5391
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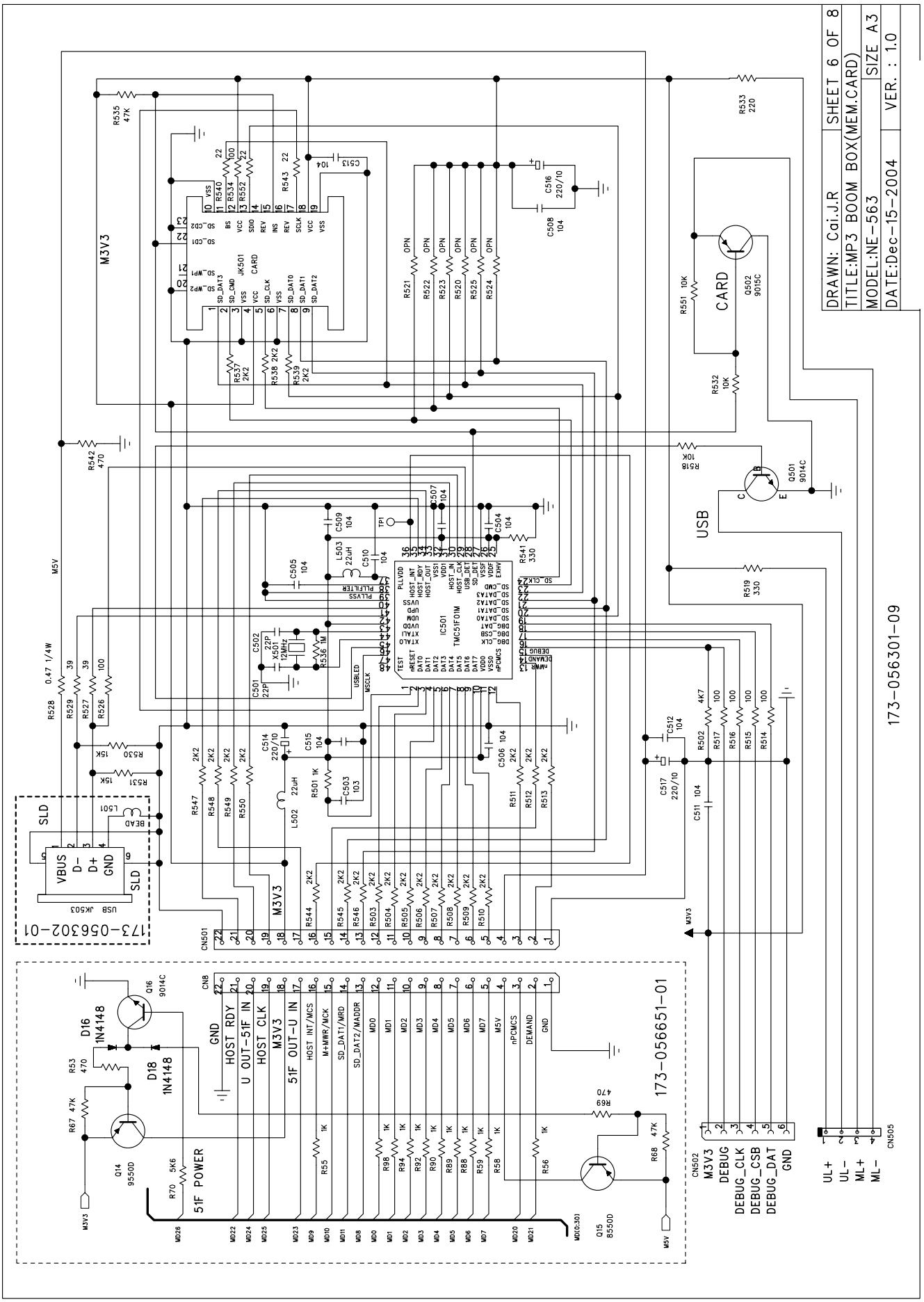
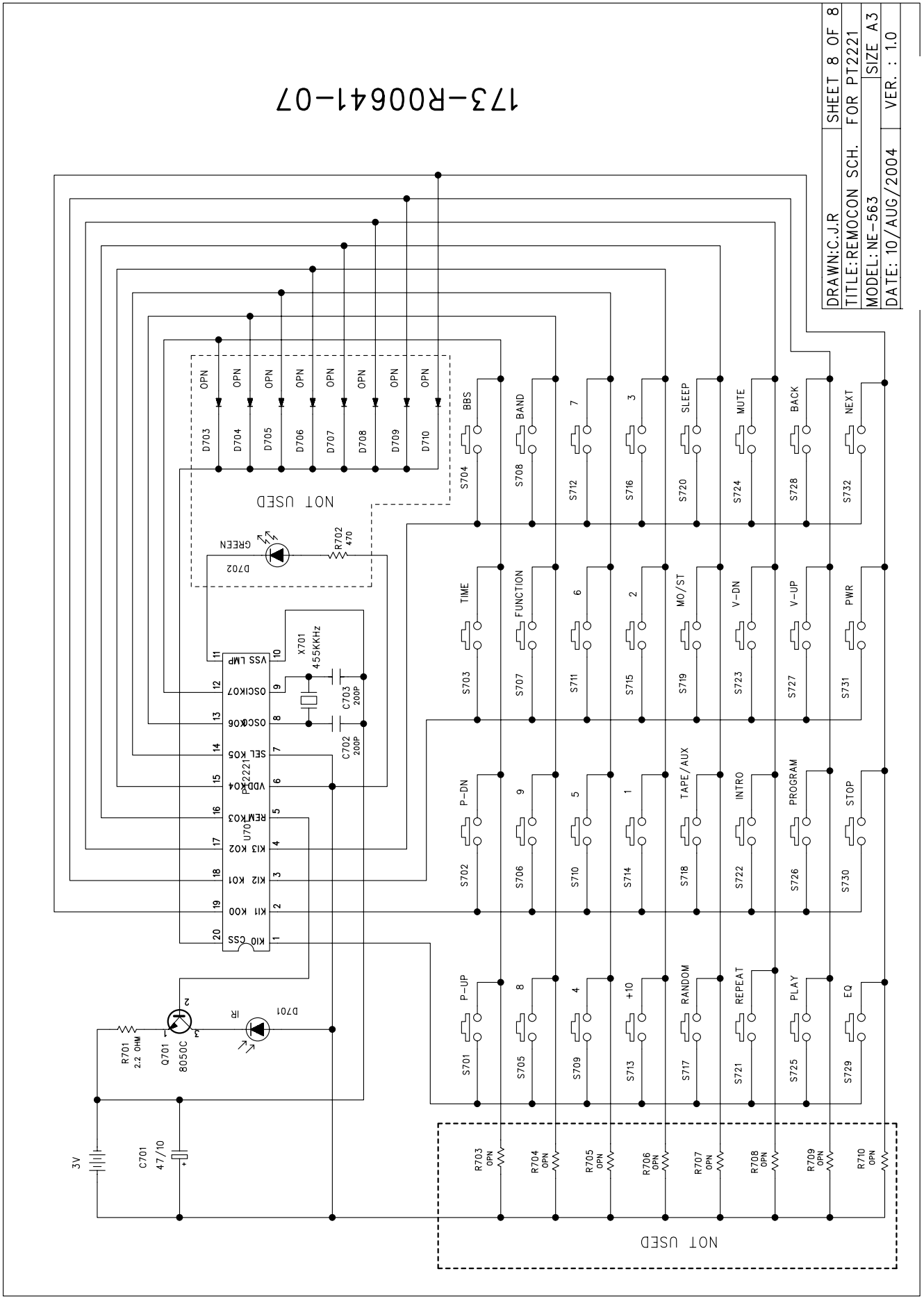
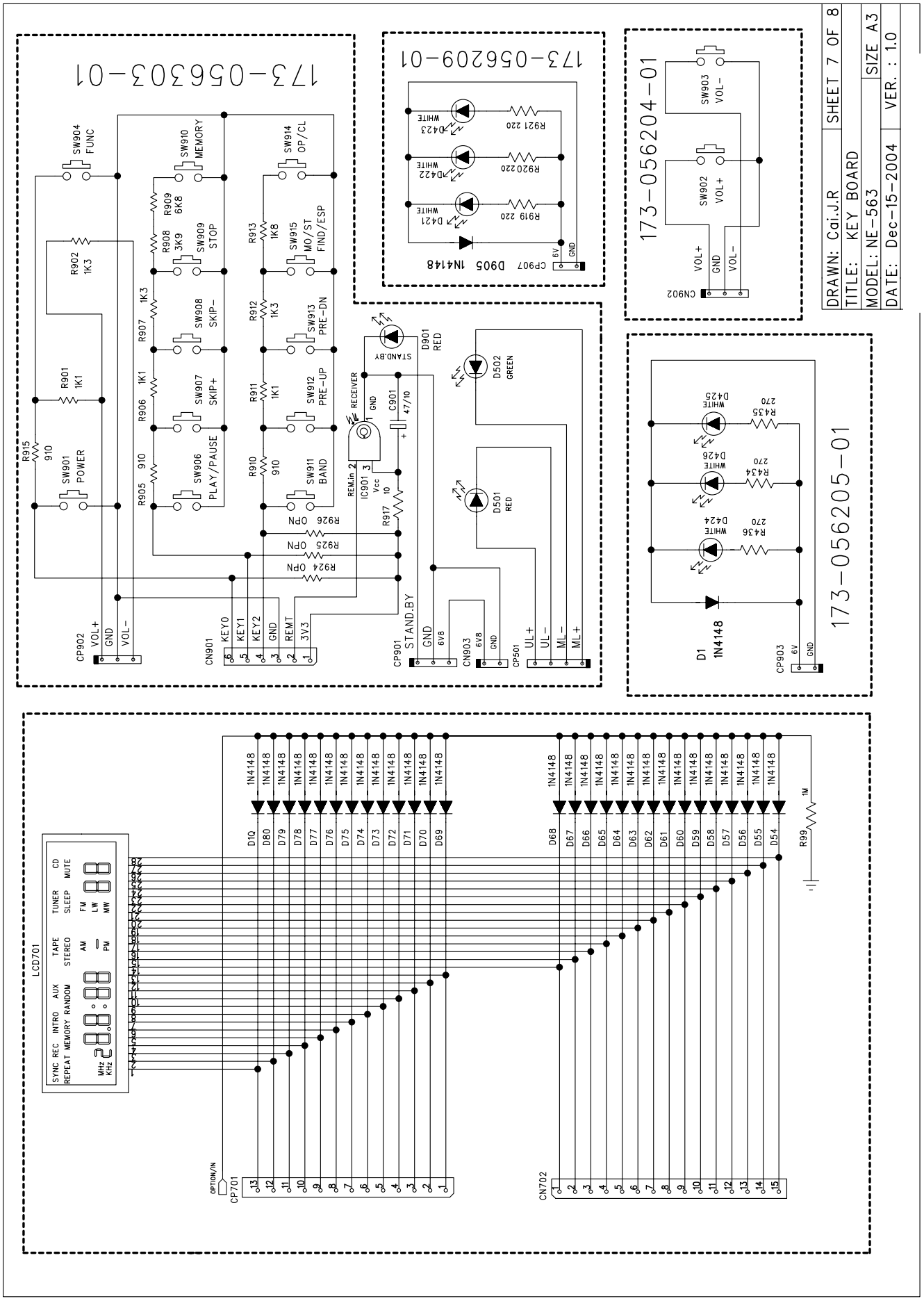
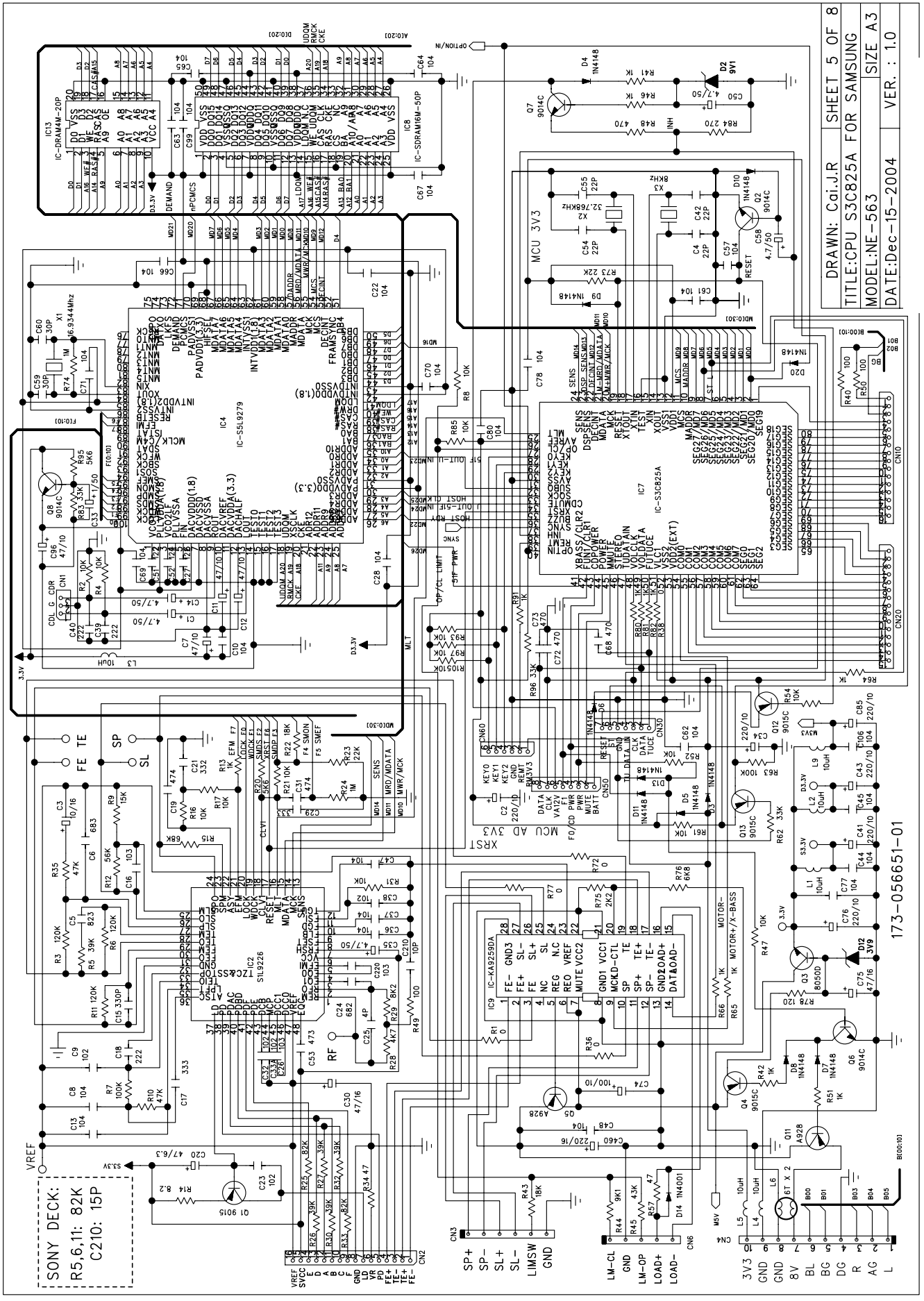
D608 1N5391
D609 1N4148
D610 1N4148
D611 IN4001
D615 1N4148
D618 1N4148
D619 1N4148
U603 7808
ZD601 4V3
C601 203P
C602 203P
C603 203P
C604 203P
C605 203P
C606 203P
C607 203P
C608 203P
C609 1000UF/25
C610 2200/25
C611 100UF
C612 10UF
C613 2200/10
C614 2200/10
C615 100/16
C616 100/16
C617 2200/10
C618 47/25
C618A 104
C619 100/16
C620 100/16
C621 2.2/50
C622 2.2/50
C623 10UF
C624 10UF
C625 1000P
C626 1000P
C630 104
C631 104
C632 104
C633 104
C634 104
C635 104
C636 104
C637 104
C638 104
C639 104
C640 104
C641 10/25
C649 104
C650 104
C652 104
C653 100UF
C654 220UF
C655 104
C656 220UF
C680A 0.15M
C679 0.15M
C686 104
R600 22K
R601 820
R602 820
R603 10K
R604 5.6K
R605 47K
R606 22
R607 22K
R608 22K
R609 2.2
R610 2.2
R611 270
R612 270
R613 4.7K
R614 4.7K
R615 180
R632 330
R635 5.6K
R640 22
L603 10UH
SHORT
TA.MUTE
TA.VCC
GND
STANDBY
+15V
MUTE
LED.VCC
+12V
3V3
8V
A.VCC
L.IN
R.IN
M1
TAPE2
TO CP2
CN602
CP2

SCHEMATIC DIAGRAMS

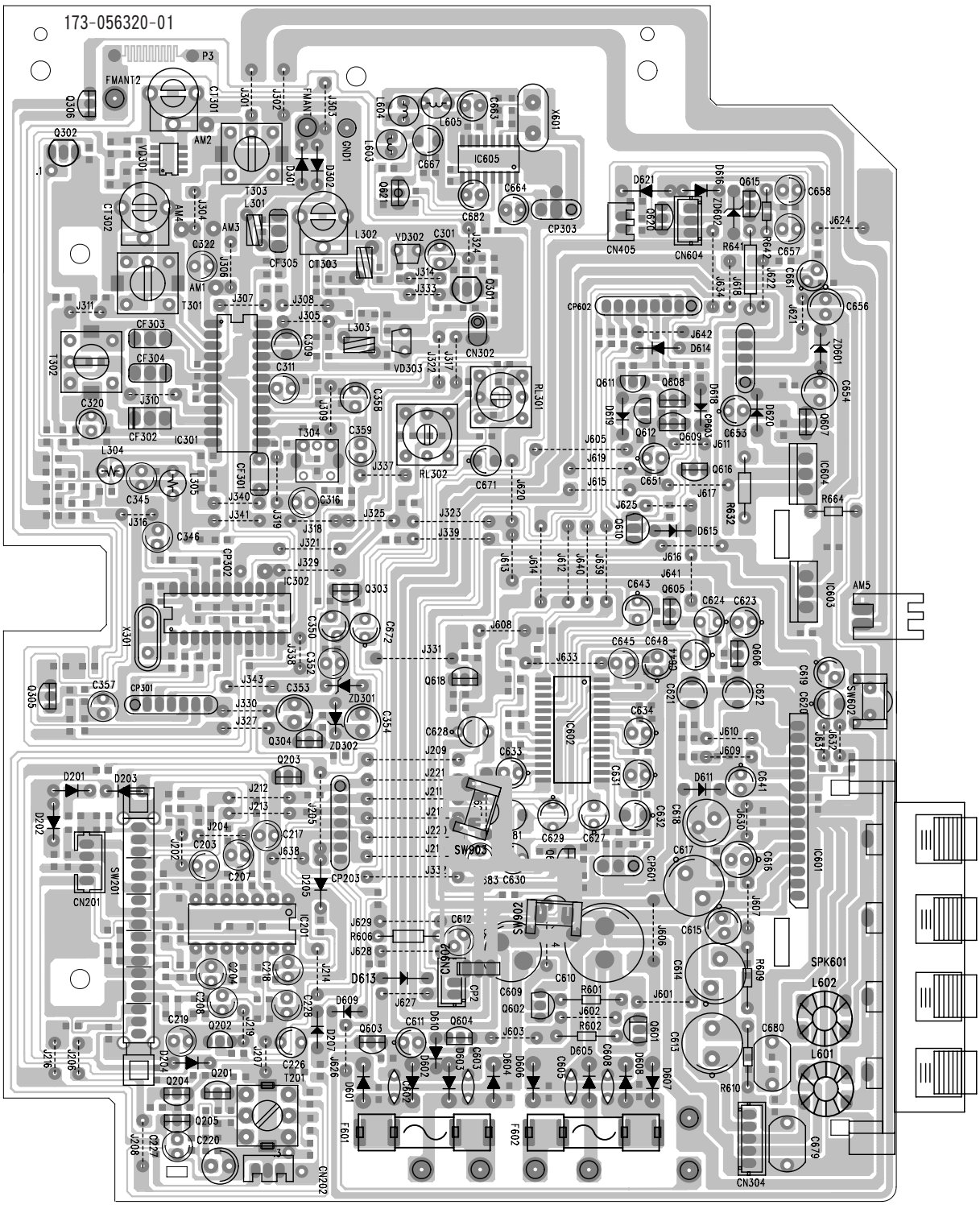


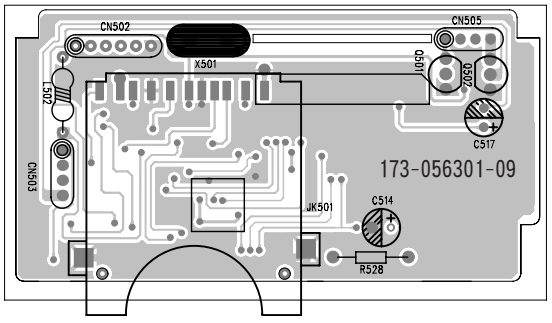

173-R00641-07
DRAWN:C.J.R
TITLE:REMOCON SCH. FOR PT2221
MODEL: NE-563
DATE: 10/AUG/2004
SHEET 8 OF 8
SIZE A3
VER. : 1.0
U701 PT2221
X701 455KKHz
C701 47/10
C702 200P
C703 200P
R701 2.2 OHM
R702 470
Q701 8050C
D701 IR
D702 GREEN
D703 OPN
D704 OPN
D705 OPN
D706 OPN
D707 OPN
D708 OPN
D709 OPN
D710 OPN
R703 OPN
R704 OPN
R705 OPN
R706 OPN
R707 OPN
R708 OPN
R709 OPN
R710 OPN
S701 P-UP
S702 P-DN
S703 TIME
S704 BBS
S705 8
S706 9
S707 FUNCTION
S708 BAND
S709 4
S710 5
S711 6
S712 7
S713 +10
S714 1
S715 2
S716 3
S717 RANDOM
S718 TAPE/AUX
S719 MO/ST
S720 SLEEP
S721 REPEAT
S722 INTRO
S723 V-DN
S724 MUTE
S725 PLAY
S726 PROGRAM
S727 V-UP
S728 BACK
S729 EQ
S730 STOP
S731 PWR
S732 NEXT
NOT USED
NOT USED
3V

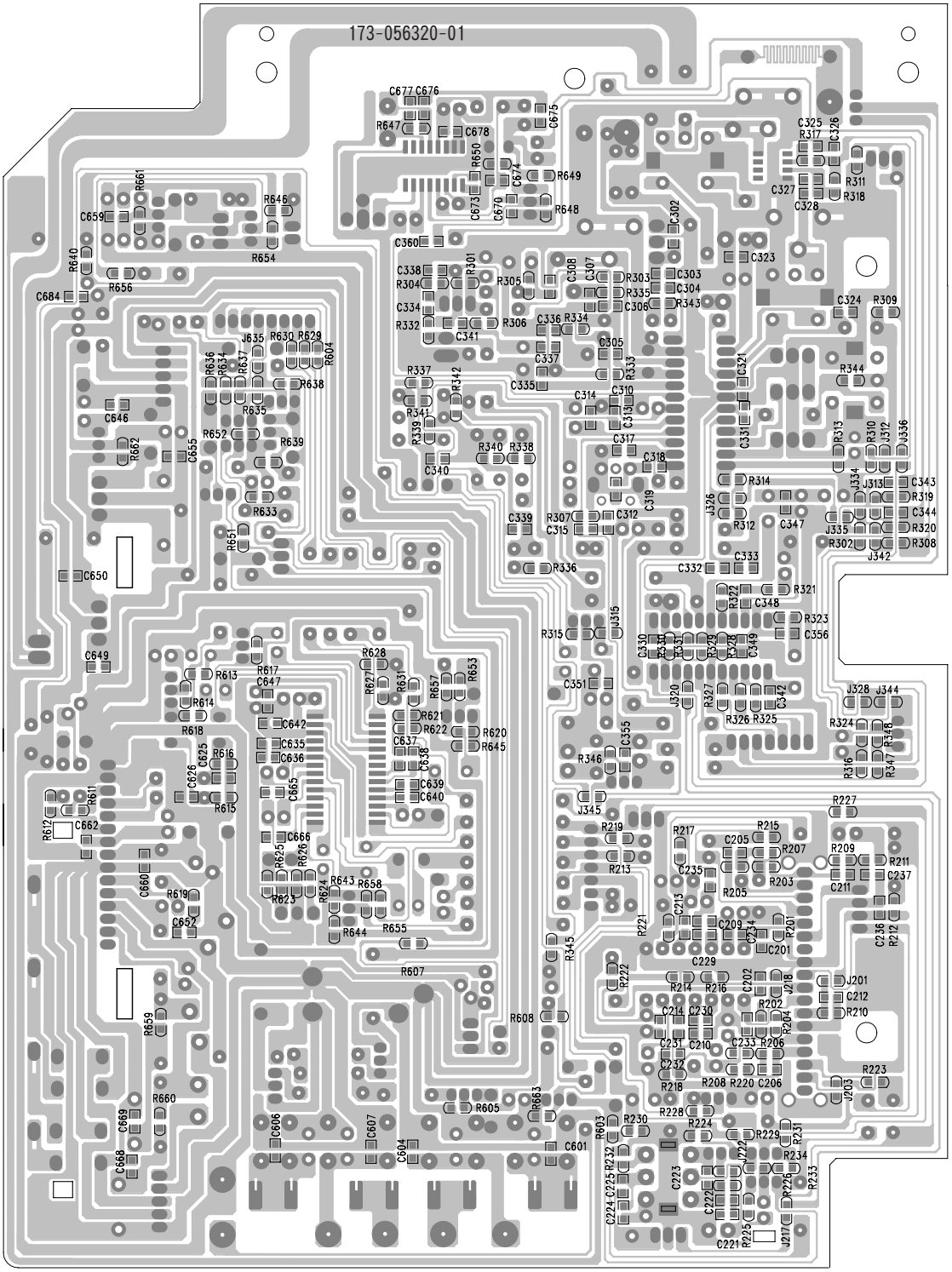

173-056303-01
173-056209-01
173-056204-01
173-056205-01
DRAWN: Cai.J.R
TITLE: KEY BOARD
MODEL: NE-563
DATE: Dec-15-2004
SHEET 7 OF 8
SIZE A3
VER. : 1.0
SW904 FUNC
SW910 MEMORY
SW914 OP/CL
SW901 POWER
SW906 PLAY/PAUSE
SW907 SKIP+
SW908 SKIP-
SW909 STOP
SW911 BAND
SW912 PRE-UP
SW913 PRE-DN
SW915 MO/ST FIND/ESP
R901 1K1
R902 1K3
R905 910
R906 1K1
R907 1K3
R908 3K9
R909 6K8
R910 910
R911 1K1
R912 1K3
R913 1K8
R915 910
R917 10
R924 OPN
R925 OPN
R926 OPN
D901 RED
D502 GREEN
D501 RED
STAND.BY
RECEIVER
REM.in
IC901
C901 47/10
CP902 VOL+ GND VOL-
CN901 KEY0 KEY1 KEY2 GND REMT 3V3
CP901 STAND.BY GND 6V8
CN903 6V8 GND
CP501 UL+ UL- ML- ML+
CP907 D905 1N4148 6V GND
R921 220
R920 220
R919 220
D423 WHITE
D422 WHITE
D421 WHITE
CN902 VOL+ GND VOL-
SW903 VOL-
SW902 VOL+
R435 270
R434 270
R436 270
D425 WHITE
D426 WHITE
D424 WHITE
D1 1N4148
CP903 6V GND
LCD701
SYNC REC INTRO AUX TAPE TUNER CD
REPEAT MEMORY RANDOM STEREO SLEEP MUTE
AM FM
PM LW
MW
MHz KHz
OPTION/IN
CP701
CN702
R99 1M
1N4148
D1Q D80 D79 D78 D77 D76 D75 D74 D73 D72 D71 D70 D69
D68 D67 D66 D65 D64 D63 D62 D61 D60 D59 D58 D57 D56 D55 D54


DRAWN: Cai.JR
SHEET 5 OF 8
TITLE:CPU S3C825A FOR SAMSUNG
MODEL:NE-563
SIZE A3
DATE:Dec-15-2004
VER. : 1.0
SONY DECK:
R5,6,11: 82K
C210: 15P
MCU 3V3
MCU AD 3V3
XRST
IC-S5L9279
IC-S3C825A
IC-KA9259DA
IC-DRAM4M-20P
IC-SDRAM16M-50P
S1L9226
173-05651-01

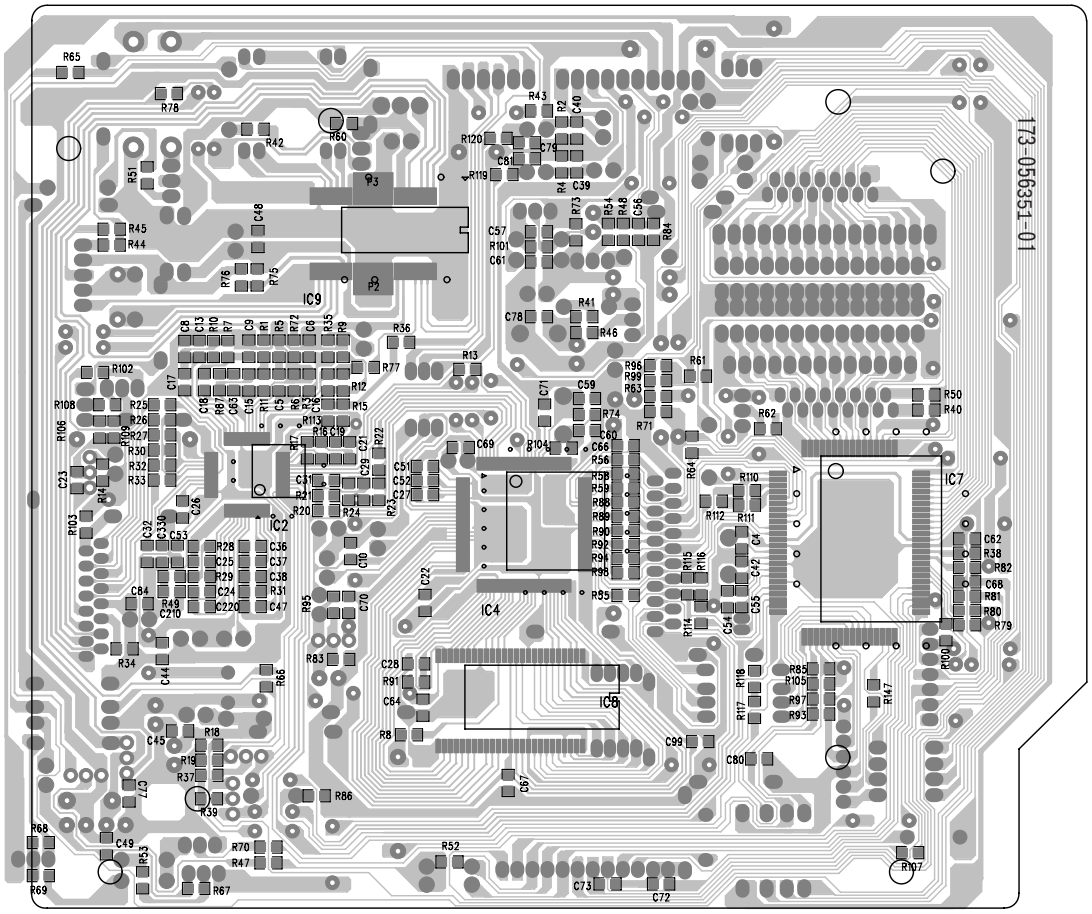
PRINTED CIRCUIT BOARDS

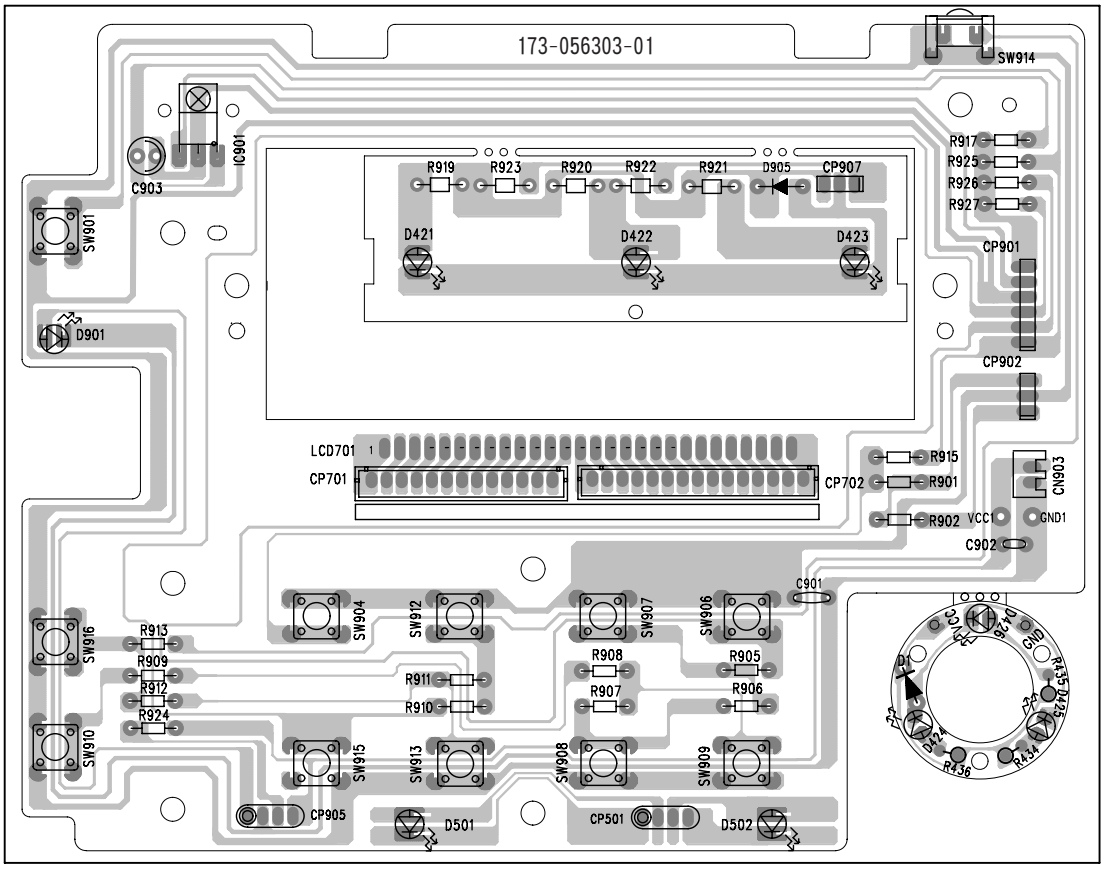




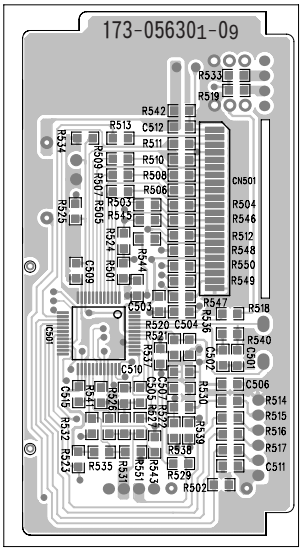

173-056320-01

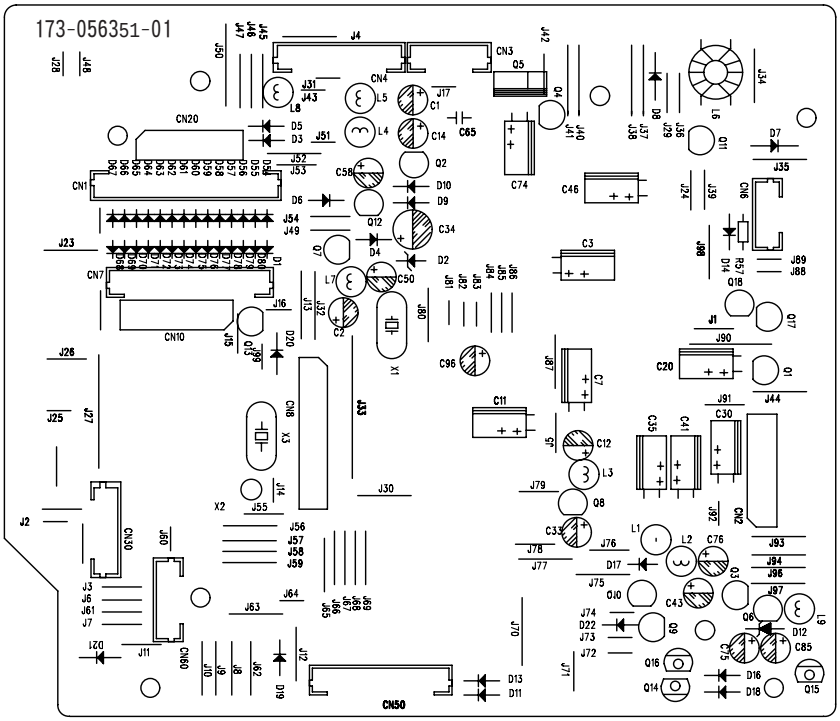
PRINTED CIRCUIT BOARDS

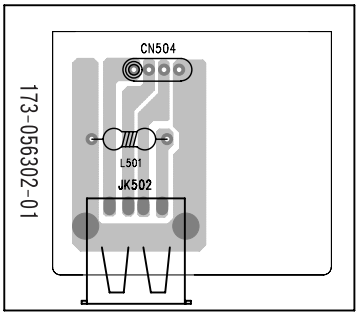


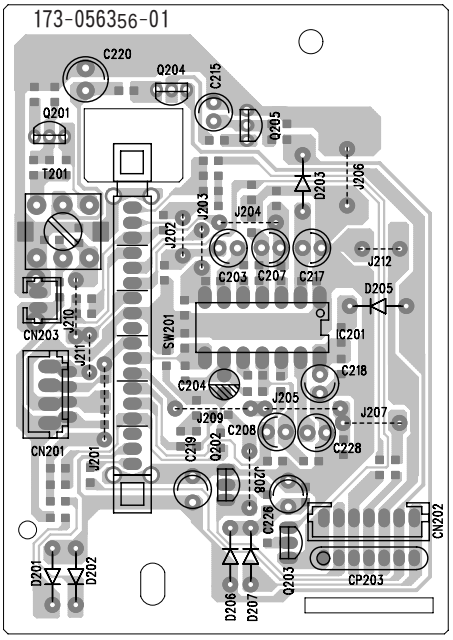


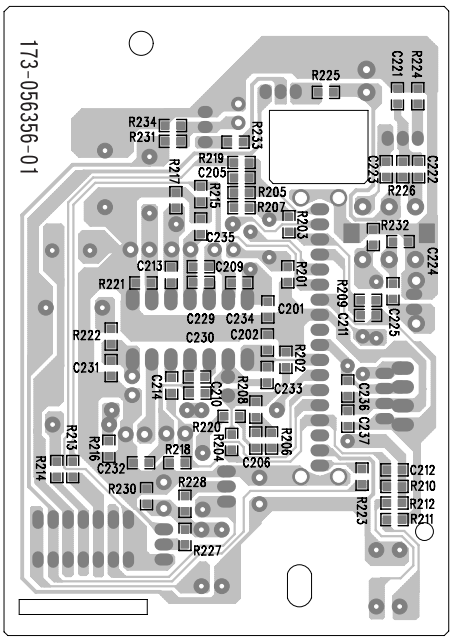
PRINTED CIRCUIT BOARDS

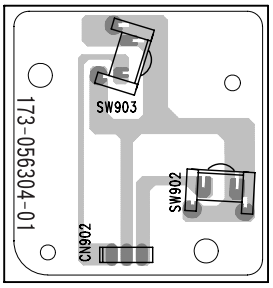




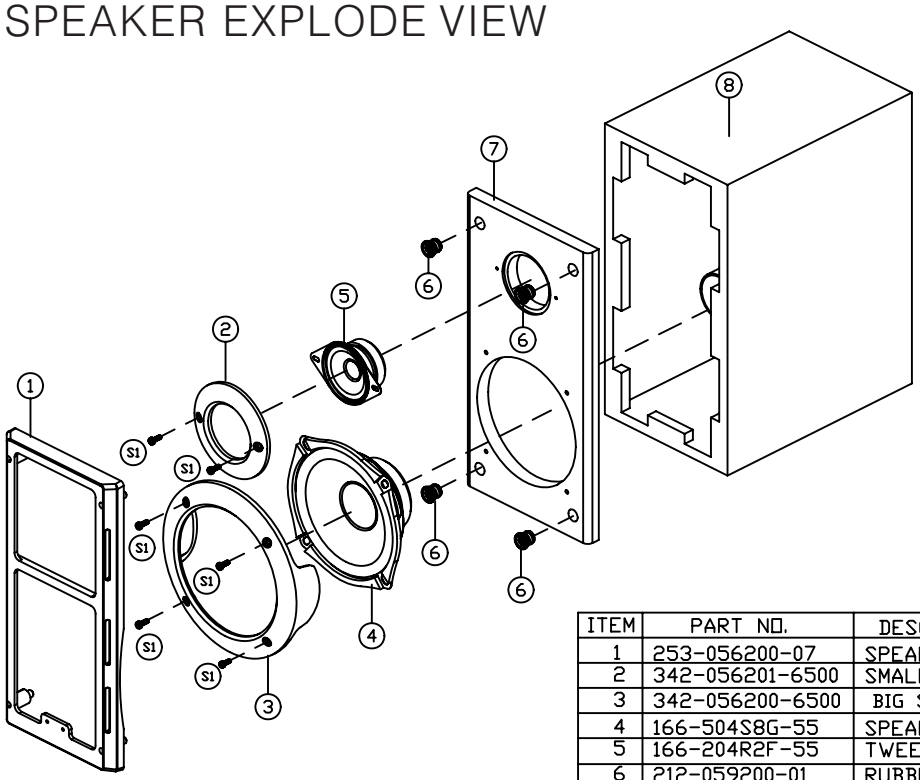






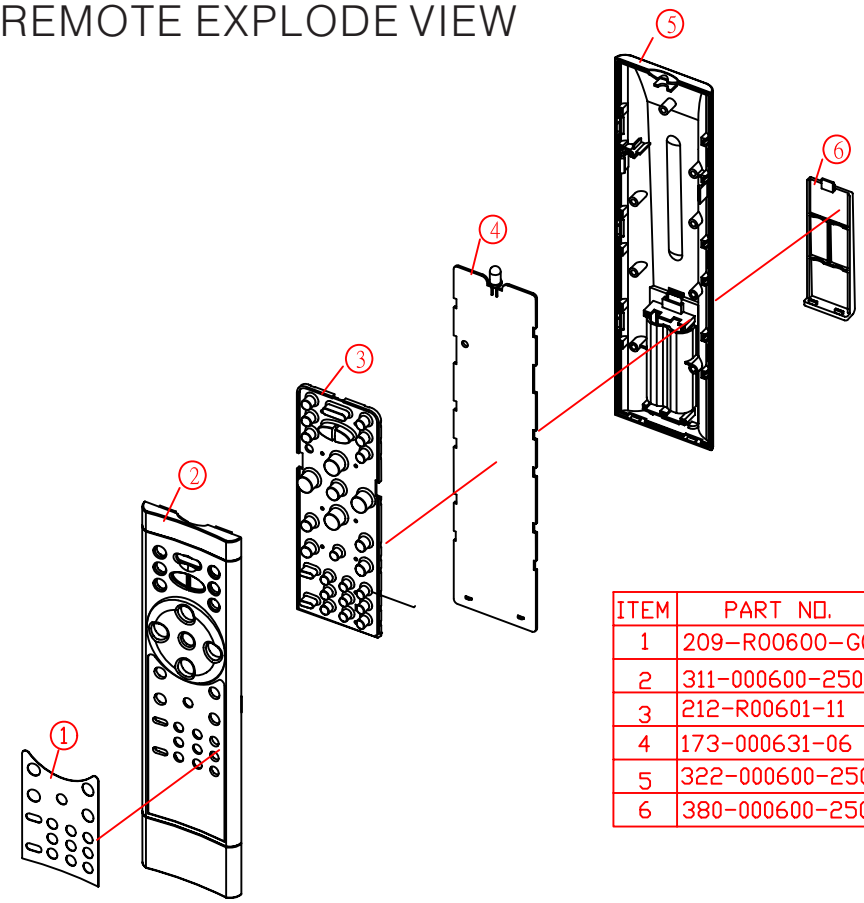


NE-563 SPEAKER EXPLODE VIEW



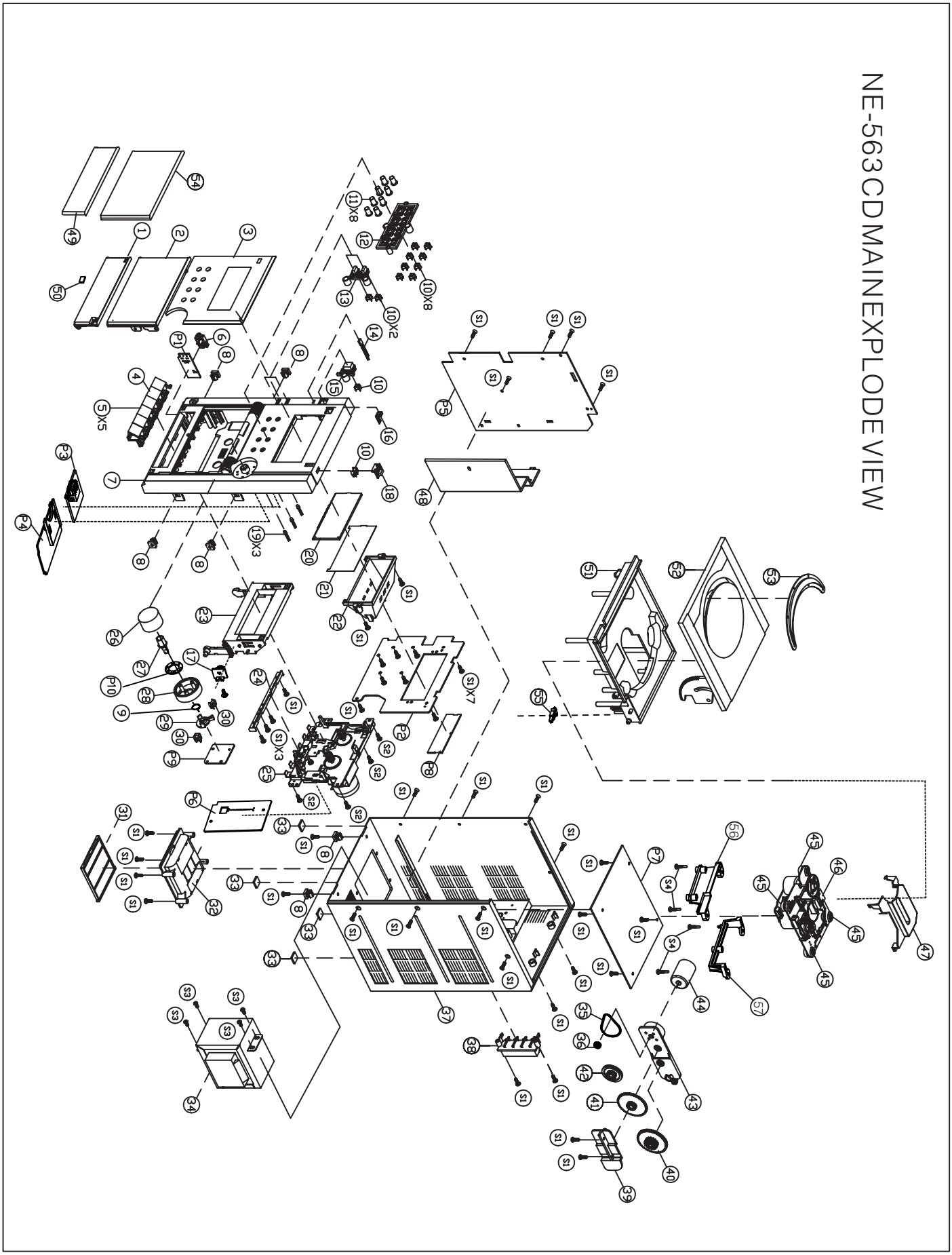
ITEM	PART NO.	DESCRIPTION
1	253-056200-07	SPEAKER MASK
2	342-056201-6500	SMALL SPEAKER RING
3	342-056200-6500	BIG SPEAKER RING
4	166-504S8G-55	SPEAKER
5	166-204R2F-55	TWEETER
6	212-059200-01	RUBBER SP MASK FIXED
7	253-056215-00	SPEAKER CABINET
8	253-056215-01	SPEAKER BOX
S1	203-301720-18	SCREW M3X18A

NE-563 REMOTE EXPLODE VIEW



ITEM	PART NO.	DESCRIPTION
1	209-R00600-G0	PVC PLATE
2	311-000600-2500	FRONT CABINET
3	212-R00601-11	SILICON RUBBER
4	173-000631-06	PCB REMOTE BOARD
5	322-000600-2500	BACK CABINET
6	380-000600-2500	BATTERY DOOR

EXPLODED VIEW/PARTS LIST (CABINET)



EXPLODED VIEW/PARTS LIST (CABINET)

ITEM	PART NO.	DESCRIPTION	QTY
1	357-056220-6500	CASSETTE KNOB COVER	1
2	358-056210-6500	CASSETTE DOOR	1
3	333-056200-8890	FRONT LENS	1
4	425-059501-1C20	CASSETTE KNOB – PLAY	1
5	425-059500-1C20	CASSETTE KNOB	5
6	177-023502-03	STEREO JACK	1
7	311-056281-6500	FRONT CABINET	1
8	303-000090-0201	MOUNTING POST REV.	6
9	420-056210-3890	VOLUME BUTTON RING	1
10	188-011522-01	TACT SWITCH	11
11	408-0562-141860	FUNCTION BUTTON	8
12	472-056211-1000	FUNCTION KNOB BASE	1
13	412-056212-2500	MUTE BUTTON	1
14	148-250001-101	LED	1
15	403-056214-2500	POWER/STANDBY BUTTON	1
16	133-6038LM-5A10	IR RECEIVER	1
17	199-000002-01	OIL DAMPER	1
18	408-056217-2490	CD OPEN BUTTON	1
19	148-030000-40	LED	3
20	134-056220-051	LCD	1
21	461-056222-1100	LCD REFLECTOR	1
22	461-056222-1100	LCD BRACKET	1
23	461-05920-1010	CASSETTE DOOR BRACKET	1
24	303-000082-0001	CASSETTE KNOB FIXER	1
25	218-057512-32	DECK THL-21SB-1592P	1
26	400-056211-2490	VOLUME KNOB	1
27	464-056206-1000	VOLUME KNOB SHAFT	1
28	420-056210-3890	VOLUME KNOB RING	1
29	463-05620V-1000	VOLUME KNOB ADAPTOR	1
30	188-011532-02	TACT SWITCH	2
31	057520-53J0	BATTERY DOOR	1
32	381-057510-53J0	BATTERY BOX	1
33	262-001510-10	RUBBER FOOT	8
34	156-582313-03	X'FORMER	1
35	211-003115-15	BELT MOTOR DIA	1
36	199-000060-02	MOTOR PULLY	1
37	322-059561-53J0	REAR CABINET	1
38	177-070000-011	SPEAKER TERMINAL	1
39	461-05923G-1010	GEAR BRACKET	1
40	460-056202-1000	CD DOOR GEAR	1
41	460-056201-1000	ADAPTOR GEAR	1
42	460-056200-1000	MOTOR GEAR	1
43	461-05622M-1000	MOTOR BRACKET	1
44	143-450220-03	MOTOR	1
45	213-000005-16	CUSHION RUBBER	4
46	219-DA11BV-ZS	CD MECHANISM	1
47	303-000072-1301	DUST COVER	1
48	202-082201-01	HEAT-SINK	1
49	238-056200-01	CASS KNOB COVER	1
50	183-100060-02	FERRITE BAR	1
51	374-059240-53J0	CD BRACKET	1
52	371-059221-6501	CD DOOR	1
53	375-059200-8KT0	CD DOOR LENS	1

ITEM	PART NO.	DESCRIPTION	QTY
54	238-056200-11	CASS DOOR DECORATION	1
55	188-000402-00	LEAF SWITCH	1
56	461-000050-01	Cd pcb mounting bracket	1
57	461-000051-01	Cd pcb mounting bracket	1
58	188-012721-01	AC POWER SWITCH	1
P1	173-059205-01	HEARPHONE JACK BOARD	1
P2	173-056303-01	FUNCTION KEY BOARD	1
P3	173-056302-0102	USB SOCKET BOARD	1
P4	173-056301-09	MEMORY CARD BOARD	1
P5	173-056220-0102	A/F+R/P+5W BOARD	1
P6	173-056656-0101	R/P BOARD	1
P7	173-056651-0102	MCU+CD SERVO BOARD	1
P8	173-056209-01	BACK LIGHT BOARD	1
P9	173-056304-01	VOLUME BOARD	1
P10	173-056205-0101	VOLUME LIGHT BOARD	1
S1	203-300200-10	SCREW 3X10 PA	44
S2	203-300200-12	SCREW 3X12 PA	7
S3	203-350800-14	SCREW 3.5X14 PWA	4
S4	207-261600-10	SCREW 2.6X10PWB-10W	4